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Dr. Charles W. Shilling
Director, BSCP

Mr. Joe W. Tyson
Assistant Director, BSCP



SPACE BIOSCIENTISTS

One of several methods of improving the flow of information from life scientist "producers" to their consumers is the identification of those individuals; whichever their category may be. A directory such as this locates those of similar or related interests thereby facilitating the exchange of data, information, and ideas. Like every directory, there are inherent errors at printing date, and as time progresses these errors multiply. It is anticipated that revisions will become available on a regular schedule.

Three sections comprise this directory. The first is an alphabetic listing of individuals with certain descriptors of their interests (numbers associated with certain names refer to topical bibliography entries). The second is an alphabetic rotation of the descriptors, followed by the individual's name. The third section is a listing of laboratories, institutions, or organizations active in research programs associated with space biology. It is intended that the rotated descriptor section be utilized to answer the general questions: 1) What is being investigated by whom, and 2) how much work or emphasis is being devoted to a research activity. For example, weightlessness is a lengthy list while other similarly inclusive terms have fewer entries.

The major fraction of those names here listed were obtained from published papers or government reports submitted. Descriptors originated in the same sources. An abbreviated categorization of descriptors applicable to research in progress may be found in the BSCP report NASA Task 20'7, Enclosure A of this report.

A second Enclosure describes the organization of space biology in the USSR and provides an alphabetic listing of the individuals involved. The listing is divided; those for whom addresses are known form one section, those scientists as yet unlocated form the last section.

Three directories which this supplements are the, DIRECTORY OF INDIVIDUALS AND ORGANIZATIONS IN HUMAN FACTORS OF MANNED SPACE FLIGHT. Part One, October 1958; Supplement, December, 1958. Prepared by the Educational Research Corporation, 10 Craigire Street, Cambridge 38, Massachusetts; SPACE SCIENTISTS AND ENGINEERS: SELECTED BIOGRAPHICAL AND BIBLIOGRAPHICAL LISTING, 1957-1961. NASA SP-5, N.A.S.A., Washington, D. C., 1962; and, SOVIET BIOASTRONAUTICS AND BIOTECHNOLOGY FACILITIES, PROGRAMS, PERSONALITIES. Summary of Data. AID Report P-63-95. July, 1963. Aerospace Information Division, Library of Congress, Washington, D. C. The reader is directed to these for additional information, and is also earnestly solicited for corrections of this material.

The initial revision will include a topical bibliography, accession numbers of which will allow matching a life scientist with his specific paper (or papers) in order that a more complete representation of his interests and work may be afforded.

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3198 Chestnut Street	
Philadelphia, Pennsylvania	
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Houston, Texas
Space flight, Environment, Weightlessness

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Thompson Ramo Wooldridge, Inc.
Cleveland, Ohio
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BABSKIY, Ye. B.
USSR
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BABUSHKIN, V. I.
USSR
Acceleration, Respiration, Gas exchange, Muscle

BACK, Kenneth C.
Aerospace Medical Division
Wright Patterson AFB
Ohio Aerospace Medical Research Laboratories
Ohio
Toxicity, Behavior, Monkey

BACK, M. J.
School of Aerospace Medicine
Brooks AFB, Texas
Rats, Enzymes

BAER, R. A.
North American Aviation, Inc.
Space & Information Systems Division
Life Science Department
Downey, California
Bioengineering, Zero-gravity, Environment

BAEVSKII, R. M.
Academy of Sciences
Moscow, USSR
Weightlessness, Closed ecological system, Space flight, Dogs,
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BAILEY, H. E.
US
Radiation

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Bell Aerospace Corporation
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Buffalo, New York
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USSR
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BELL, J.
NASA, Ames Research Center
Moffett Field, California
Bacteria, Exobiology, Mars simulation

BELLEVILLE, Richard E.
NASA - Manned Spacecraft Center
Houston, Texas
Space environment, Chimpanzee, Behavior, Weightlessness,
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BELLI, James A.
Public Health Service
Bethesda, Maryland
Radiation, Cells, Physiology, Oxygen

BELOUSOV, A. S.
Academy of Medical Sciences,
Institute of Normal and Pathological Physiology
Moscow, USSR
Radiation, Telemetry, Humans

BELYACOV, G. M.
USSR
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BENDER, M. A.
Oak Ridge National Laboratory
Oak Ridge, Tennessee
Biosatellite

BENEDIKT, Elliott T.
North American Aviation, Inc.
Norair Division
Hawthorne, California
Weightlessness

BENISHEK, B. J.
Bioastronautics Section
Boeing Company
Seattle, Washington
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BENJAMIN, F. B.
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Applied Systems Corporation
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BERNARD, S.
Centre d'Enseignement et de Recherches de
Medicin Aeronautique
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Soil and Water Conservation Research Division
Watkinsville, Georgia
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BESON, E. E. 403
Brooks AFB,
Texas
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BEST, J. B.
Colorado State University
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BEUTEL, Jack 288
Minneapolis-Honeywell Regulator Company
Minneapolis, Minnesota
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BEZINGER, E. N.
Institute of Biochemistry
Academy of Sciences
USSR
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Groton, Connecticut
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Illinois
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Stanford University
Stanford, California
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BLUMBERG, J. M.
Armed Forces Institute of Pathology
Washington 25, D. C.
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BOLLES, R. 1324
Hollins College
Virginia
Behavioral biology, Circadian rhythms, Rats, Space environment

BOLOTINA, O. P. 1362
USSR
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BOLSTAD, Atle
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Humans, Metabolism, Heat regulation, Environment

BOLSTAD, Luther L.
Minneapolis-Honeywell Regulator Company
Aeronautical Division
Minneapolis, Minnesota
Closed ecology, Capsule, Environment

BOND, A. C.
US
Project Mercury

BONDURANT, S.
Human, Space environment, Space flight, Acceleration

BONET-MAURY, P.
Radiation, Life sciences

BONGERS, Leonard H. 1144
Martin Marietta Corporation
Martin Company
Space Systems Division
Baltimore, Maryland
Mars, Exobiology, Life support, Microbiology

BORELLA, Henry
US
Radiation, Monkey

BORGES, Wayne H. 1106
School of Aerospace Medicine
Brooks AFB, Texas
Genetics

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BRANDT, A. V. Department of Biology & Soil Science Moscow State University Moscow, USSR Algae, Chlorella	
BRANNON, Earl W. USAF Aerospace Medical Division Wilford Hall USAF Hospital Department of Orthopedic Surgery San Antonio, Texas Physiology, Weightlessness, Muscle	1462
BRATT, Harry R. USAF Flight Test Center Edwards AFB, California Physiology, Space flight	1263
BRAUER, Ralph W. U.S. Naval Radiological Defense Laboratory San Francisco, California Radiation, Pathology	1391
BREDEMEYER, Antoine Wright Patterson AFB, Biophysics Laboratory Ohio Radiation, Eye	1442

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BRENDEL, W. W. G. Kerckhoff Institut der Max-Planck-Gesellschaft Bad Nauheim, Physiologischen Institut der Justus-Tiebig Universitat, Giessen Heat regulation, Brain, Dog, Respiration, Circulation	
BRESLAV, I. S. Moscow, USSR Gas exchange, Physiology, Bioengineering, Mouse, Closed ecology	599 1177 1312
BRESLAVETS, L. P. Institute of Physics USSR Space flight, Photochemistry, Photosynthesis, Plants, Radiation, Genetics	
BRESTKIN, A. P. Institute of Evolutionary Physiology USSR Closed ecological systems, Pressure	
BREYTMAN, R. Sh. Moscow, USSR Medicine	1399
BRIGGS, L. J. US Space flight, Explorer II	
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BRINEY, Stanley R. State University of Iowa Iowa City, Iowa Hamster, G-Tolerance, Aerospace medicine	531
BRINKLEY, James W. Wright Patterson Air Force Base Ohio Aerospace medicine, Abrupt, Acceleration	98

BRISSENDEN, M. C.

US

Manned, Space flight

BRISSENDEN, Roy E.

1125

National Aeronautics & Space Administration

Manned Spacecraft Center

Houston, Texas

Space flight, Vision, Manned

BRODSKY, Allen

1106

Brooks AFB

School of Aerospace Medicine

Texas

Genetics

BROERSE, J. J.

1389

Organization for Health Research, T.N.O.

Radiobiological Institute

Rijswijk, Netherlands

Radiation, Human, Cells, Tissue, Culture

BROLINE, G. K.

Bio-Electronics Branch

Bio-Environmental Division

Life Sciences Department

U.S. Naval Missil Center

Point Mugu, California

Life support requirements

BRONSHTEYN, A. A.

Academy of Sciences

Institute of Evolutionary Physiology

Leningrad, USSR

Weightlessness, Ear

BRONSTEIN, A. A.

Academy of Sciences

Institute of Evolutionary Physiology

Leningrad, USSR

Gravity, Nervous system, Ear

BROWN, Allan H.

268

University of Minnesota

605

Graduate School

Minneapolis, Minnesota

Environment, Metabolism, Bioinstrumentation, Closed ecological system, Algae culture, Weightlessness, Biosatellite, Environmental biology

BROWN, Daniel L.

1103

Ionics, Inc.

900

Cambridge, Massachusetts

Urine, Closed ecology

BROWN, D. L. 252
Central Engineering Laboratory
FMC Corporation
Santa Clara, California
Physiology, Food, Space flight

BROWN, Edward L 111
Aero Medical Laboratory
Wright Air Development Center
Dayton, Ohio
Gravity, Weightlessness

BROWN, F. A.
US
Radiation, Organism

BROWN, John L.
Psychology Division
Aviation Medical Acceleration Laboratory
Naval Air Development Center
Johnsville, Pennsylvania
Water immersion, Tracking performance, Acceleration, Spectral
energy thresholds, Biodynamics

BROWN, Thomas D. 1443
Rochester University
Rochester, New York
Bibliography, Physiology, Radiation

BROWN, W. L.
US
Escape, Biomedical evaluation

BRUCE, David W. 1118
Chicago University 1400
USAF Radiation Laboratory
Chicago, Illinois
Radiation, Toxicity, Mammals

BRUCE, F. R. 1376
Oak Ridge National Laboratory
Oak Ridge, Tennessee
Space program

BRUES, A. M.
Radiation, Pathology

BRUNSON, Henry W. 1025
Aerospace Medical Division
Holloman AFB
New Mexico
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Wright Patterson AFB, Ohio	
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 BUDY, Ann M.	1117
Chicago University	
USAF Radiation Laboratory	
Chicago, Illinois	
Mice, Genetics	
 BUETTNER, K.	
Extraterrestrial life, Radiation	
 BUGROV, G. B.	
USSR	
Space flight, Animal studies	
 BULLOCK, Theodore H.	
National Academy of Sciences	
Committee on Environmental Biology	
USSR	
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Philadelphia, Pennsylvania	
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Minneapolis, Minnesota	
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Air Research Manufacturing Company	
Los Angeles, California	
Life support systems, Aerospace medical problems, Space flight,	
Space program	

BURRISS, W. L.	791
Air Research Manufacturing Company	
Los Angles, California	
Life support systems, Aerospace medical problems, Space flight,	
Space program	
 BURSACK, William W.	286
USAF Wright Air Development Division	
Dayton, Ohio	
Metabolism, Respiration, Closed ecological system	
 BURTON, B. B.	
US	
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New York 3, New York	
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 BUSNENGO, E.	1190
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USSR	
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Central Institute of Medical Radiology	
USSR Ministry of Health	
Radiation, Physiology, Respiration	
 BYERS, Richard A.	
Advanced Systematic Engineering	
Missile & Space Division	
Lockheed Aircraft Corporation	
Sunnyvale, California	
Manned, Space station	
 BYERS, Vincent W.	
University of Illinois	
Urbana, Illinois	
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Air Ministry	
Farnborough, Great Britain	
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CABEZAS, Pedro Gomez
Space crew, Ear, Sense

CAFFREY, R. W.
Arctic Aeromedical Laboratory
Fort Wainright, Alaska
Rats, Blood, Temperature control

1062

CAIDIN, Grace
c/o E. P. Dutton & Company
New York 3, New York
Aerospace medicine, Human, Space flight

108

CAIDIN, Martin
E. P. Dutton & Company
New York 3, New York
Man, Space

1212

108

CAIN, C. C.
Lockheed Aircraft Corporation
Lockheed Missiles & Space Company
Space Systems Development Planning
Sunnyvale, California
Weightlessness

1258

CAIN, Stephen M.
School of Aerospace Medicine
Aerospace Medical Division
Brooks AFB, Texas
Tissue, Oxygen, Heat regulation

1381

CALDWELL, W. F.
Wright Patterson AFB
Biophysics Laboratories
Ohio
Ear

1072

CALLAGHAN, Edmund E.
Electromagnetics Branch
Lewis Center
NASA
Noise

CALVIN, Melvin
University of California
Division of Bio-Organic Chemistry Cp.
Radiation Laboratory
Berkeley, California
Exobiology, Extraterrestrial life, Chemical evolution, Algae,
Metabolism, Remote sensing, Nucleic acid, Radiation, Gaseous
environment

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CAMERON, D. E.
McGill University
Montreal, Canada
Sense, Pharmacology, Psychology, Human

CAMERON, Roy E. 1386
California Institute of Technology
Jet Propulsion Laboratory
Space Science Division
Chemistry Section,
Pasadena, California
Space exploration, Environment, Life science, Extraterrestrial life

CAMPBELL, F.
NAS-NRC
Physical biology

CAMPBELL, Paul A.
Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB, Texas
Radiation, Biologistics, Space flight, Extraterrestrial space

CAMPBELL, Richard A.
U. S. Navy Electronics Laboratory
San Diego, California
Sense, Ear, Physiology

CAMPBELL, V.
US
Cosmic radiation

CANNING, T. N.
US
Radiation

CAPPEL, E. L. 349
US Naval School of Aviation Medicine
Pensacola, Florida
Acceleration, Pilots, Aerospace medicine

CAPPEL, Klaus L.
Franklin Institute Laboratory
Philadelphia, Pennsylvania
Aerospace medicine, Life support system

CAPARARO, V. 790
University of Milan
Institute of Human & General Physiology
Milan, Italy
Magnetic field, Tissue, Physiology

CARAH, A. J.
US
Bioengineering

CARDON, S. Z. Rand Development Corporation Cleveland, Ohio Bioengineering, Physiology	787
CARHART, Raymond Northwestern University Auditory Research Laboratory, Evanston, Illinois Sense, Ear	805
LARLSON, L. D. Kentucky University Lexington, Kentucky Physiology, Space flight, Space environment	
CARLSON, Loren D. Washington University Seattle, Washington Physiological functions, Human performance, Thermal balance, Rabbit	801 1102
CARNEY, T. M. US Automatic control	
CARPENTER, M. Scott Aerospace Medical Division School of Aerospace Medicine Brooks AFB, Texas Space flight	1171
CARRIKER, A. W. American Machine & Foundary Company Alexandria, Virginia Radiation, Space program	385
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CARTER, J. G. Oak Ridge National Laboratory Oak Ridge, Tennessee Bacteria, Protein	1105
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CASARETT, George W. Rochester University Rochester, New York Pathology, Physiology, Radiation, Dogs	793
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CERVI, J. J. Federal Aviation Agency Atlantic City, New Jersey Bioengineering, Environment	1373
CHAILLET, R. F. Defense Department Office of the Director of Defense, Research and Engineering Washington, D. C. Human, Astronauts, Space flight	1129
CHAMBERS, Randall M. US Naval Air Development Center Aviation Medical Acceleration Laboratory Johnsville, Pennsylvania Acceleration, Weightlessness, Environment, Physiology, Performance, Bioinstrumentation, Aerospace medicine, Psychology	114 347 644 1130
CHAMOVA, K. G. USSR Microbiology, Space flight	

CHAN, W.
Medical Sciences Research Roundation
Stanford, California
Behavioral biology, Circadian rhythms, Man

CHAPMAN,
Southern Illinois University
Carbondale, Illinois
Behavioral biology, Senses

CHAPMAN, Calvin C. 625
Radiobiology Branch
School of Aviation Medicine
Brooks AFB, Texas
Animal studies, Mouse, Radiation

CHAPMAN, D. D. 228
Boeing Company 1169
Seattle, Washington
Space capsule, Microorganisms, Waste

CHARAKHCHYAN, A. N.
USSR
Human, Space flight, Space environment

CHASE, Herman B. 37
Brown University
Providence, Rhode Island
Tissue, Radiation, Aerospace medicine, Mammals

CHASON, Lloyd R. 1155
Baylor University
Waco, Texas
Conditioned response, Sense, Chimpanzee

CHEESEMAN, S. A.
US
Medicine, Sense

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Space flight, Monkey

CHEREPAKHIN, M. A. 1302
USSR
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Central Institute of Hematology & Blood Transfusion of the Ministry of Health	
USSR	
Space flight, Enzyme, Blood	
CHERNOV, Vasilii Mikhailovich	
Laboratory of Physiology and Pharmacology of Cardio-Vascular System	
Academy of Medical Sciences	
USSR	
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CHERTKOV, I. L.	
USSR	
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University of Southern California	
Los Angeles, California	
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Lovelace Foundation	
Medicine Education and Research	
Albuquerque, New Mexico	
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Aerospace Medical Division	
Wright Patterson AFB, Ohio	
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Lengrad Science Research	
Institute of Antibiotics	
USSR	
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Johns Hopkins University	
Baltimore, Maryland	
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CIMPEANU, L. Institute of Geriatrics Bucharest, Rumania Embryo, Gravity, Acceleration, Growth	1467
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CLARE, V. R. Defense Atomic Support Agency Washington Animal studies, Environment, Overpressures	1007
CLARK, Brant. US Naval School of Aviation Medicine US Naval Aviation Medical Center 54 Pensacola, Florida Centripetal force, Human, Performance, Water immersion, Training	
CLARK, B. C., III Bioastronautics Branch, Biophysics Division Air Force Special Weapons Center Air Force Systems Command Kirtland Air Force Base, New Mexico Radiation, Biotelemetry	
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US	
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US Naval Air Development Center	114
Johnsville, Pennsylvania	1463
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Harbor General Hospital	
Division of Urology	
Torrance, California	
Heat regulation	
COERMANN, Rolf R.	104
Vibration and Impact Section	
Aero Medical Division	
ARDC	
Wright Patterson AFB, Ohio	
Vibration	
COHEN, S. I.	
Duke University	
School of Medicine	
Durham, North Carolina	
Psychology, Physiology, Neurology, Behavior	
COLE, L. J.	772
Naval Radiological Defense Laboratory	1440
San Francisco, California	
Genetics, Mice, Radiation, Tissue, Skin	
COLLINS, J. L.	
US	
Radiation, Genetics	
COLLINS, William E.	1033
Federal Aviation Agency	1355
Civil Aeromedical Research Institute	
Oklahoma City, Oklahoma	
Cats, Eye	
COMBS, J. J.	
US	
Medicine, Sense	
COMMING, L. G.	
IRE (Hq.)	
1 E. 79th Street	
New York 21, New York	
Bioastronautics, Liaision	

CLARK, Dale 1170
Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB, Texas
Human, Bioengineering, Closed ecology

CLARK, David T. 583
American Society of Zoologists
National Association of Biology Teachers
and the Society for the Study of Evolution
Space biology

CLARK, F. C.
Association for Advancement of Mental Health
Indianapolis, Indiana
Behavioral biology, CNS, Stimuli

CLARK, N.
Human, Space environment, Space flight, Acceleration

CLARK, R.
Oklahoma City University
Oklahoma City, Oklahoma
Environmental biology, Gaseous environment, Physiology,
Microbiology

CLARK, Robert T., Jr. 325
Aero Medical Center 364
USAF School of Aviation Medicine
Brooks AFB, Texas
Space medicine, Irradiation, Metabolism

CLAUS, G.
Exobiology, Meteorites

CLEARY, Stephen F. 1027
New York University
Medical Center
New York, New York
Eye

CLEMEDSON, Carl-Johan 1203
Department of Hygiene
University of Gothenburg
Gothenburg, Sweden
Bioastronautics, Life sciences, Mammals, Circulatory systems,
Decompression

CLEMENTE, C.
Lockheed Aircraft Corporation
Sunnyvale, California
Environmental biology, Radiation, Cats, Rats, CNS, Physiology

COMUNIZIS, Marcus G.
Jet Propl. Laboratory, NASA
California Institute of Technology
Pasadena, California
Environmental design, Sterilization

CONGDON, S. P. 997
General Dynamics Corporation
Astronautics Division
San Diego, California
Human, Space capsule, Closed ecology

CONNOLLY, John M.
Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB, Texas
Medicine, Aerospace medicine

COOPER, Blossom 1036
Biophysics Laboratory
Wright Patterson AFB, Ohio
Heat energy, Eyes

COOPER, W. N.
US
Instrumentation, Telemetry

CORDARO, Joseph T. 367
School of Aerospace Medicine 377
Brooks AFB, Texas
Space flight, Spores, Sterilization of craft

CORDEIRO, R. R. 244
Wright Patterson AFB,
Ohio
Gas exchanger, Plant, Photosynthesis

CORKHILL, de Paul J.
USAF
Aeromedical Field Laboratory
Holloman AFB, New Mexico
Space, Radiation, Communication

CORREA, Jose N. 1388
National Institutes of Health
Bethesda, Maryland
Radiation, Cells, Physiology, Oxygen

COSTELLO, L.
University of Maryland
Environmental biology, Ascaris, Biochemistry, Adaptation

COTTRELL, W. B. 1376
Oak Ridge National Laboratory
Oak Ridge, Tennessee
Space program

COULES, J.
Operational Applications Laboratory
ESRH, ESD
Bedford, Massachusetts
Psychology, Physiology, Performance, Human

COX, Hiden T.
American Institute of Biological Sciences
2000 P Street, N. W.
Washington 16, D. C.
Space biology

CRAFT, H. L.
USAF School of Aerospace Medicine
AMD (AFSC)
Brooks AFB, Texas
Algae, Gas exchanger, Closed ecology

CRAIG, J.
Martin Marietta Corporation
Martin Company
Denver, Colorado
Bioengineering

CRAMER, Earl H.
School of Aviation Medicine
Brooks AFB, Texas
Behavior, Senses, Human

CRAMER, Kenneth R.
USAF Wright Air Development Command
Technology Division
Columbus, Ohio

CRAWFORD, D. C.
Central Engineering Laboratory
FMC Corporation
Santa Clara, California
Physiology, Food, Space flight

CRAWFORD, George W.
School of Aerospace Medicine
Badiobiology Branch
Department of Medical Sciences
Brooks AFB, Texas

CREELMAN, C. Douglas
Johns Hopkins University
Department of Psychology
Baltimore, Maryland
Sense, Ear

1013

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CREER, Brent Y.
Ames Research Center
NASA
Physiology, Acceleration

CRITZ, George T. 1101
Naval Air Material Center
Philadelphia, Pennsylvania
Human, Space environment, Gas exchange, Acceleration

CRONIN, Lucille 1470
Mayo Clinic and Mayo Foundation
Section of Physiology
Rochester, Minnesota
Oxygen, Respiration, Acceleration

CROSS, Cecil E. 1465
Lockheed Aircraft Corporation
Burbank, California
Oxygen, Circulatory system

CROSSFIELD, Scott A. 361
Lovelace Foundation for Medicine,
Education and Research
Albuquerque, New Mexico
Space flight, Human, Medicine

CUMMINGS, J. W. 1241
Gulton Industries, Inc.
Metuchen, New Jersey
Zero-gravity

CURTIS, H. J. 1138
Brookhaven National Laboratory
Biology Department
Upton, New York
Radiation, Biological effects

CUTLER, Ralph G. 1014
USAF School of Aerospace Medicine
Brooks AFB, Texas 1154
Closed ecology, Man, Physiology, Gas pressure, Respiration, 1204
Urine, Food 1466

DAGIANTI, A. 1190
University of Rome
Medical Clinic Institute
Rome, Italy
Dog, Circulatory system

DAHL, A. O. 522
University of Minnesota
Biosatellite

DAHL, Elmer V. 522
Brooks AFB, Texas
Rat, Pharmacology, Decompression

DALLOS, Peter J. 805
Northwestern University
Auditory Research Laboratory
Evanston, Illinois
Sense, Ear

DAMATO, Morris J.
Department of the Navy
Naval Air Material Center
Air Crew Equipment Laboratory
Philadelphia, Pennsylvania
Life support system, Capsule, Gaseous environment

DANIELLI, J.
State University of New York
Buffalo, New York
Physical biology, Genetics, Molecular biology, Intracellular communication

DANIELSON, Lea
Colorado State University
Fort Collins, Colorado
Plants, Space environment

DANILEYKO, V. I.
USSR
Radiation, Environment

DARENSKAYA, N. G.
USSR
Doge, Radiation, Sensitivity

DARLEY, D. Lucille
Bolt Beranek and Newman, Inc.
50 Moulton Street
Cambridge, Massachusetts
Pilots, Behavior, Training

DAUGHERTY, Jack W. 1379
Federal Aviation Agency
Civil Aeromedical Research Institute
Oklahoma City, Oklahoma
Physiology, Space flight, Chickens, Rats

DAVENPORT, E. W. General Dynamics Corporation Astronautics Division San Diego, California Human, Closed ecology, Capsule	997
DAVIDSON, R. Battelle Memorial Institute Environmental biology, Life support, Microbiology, Gas exchange	
DAVIES, Richard National Academy of Sciences Committee on Exobiology Space biology	
DAVIES, R. W. Sterilization, Space capsule, Exobiology	
CAVIS, Henry Martin Marietta Corporation Martin Company Denver, Colorado Life support, Space flight	804
DAVIS, Irving School of Aerospace Medicine Brooks AFB, Texas Radiation, Cells, Space flight	380
DAVIS, Norman S. Massachusetts Institute of Technology Cambridge, Massachusetts Microorganisms, Extraterrestrial life, Closed ecology, Exobiology, Spacecraft sterilization	1236 1070
DAVIS, Richard L. Armed Forces Institute of Pathology Washington, D. C. Pathology, Mouse, Cosmic, Radiation	669 1024
DAVIS, W. E. Naval Radiological Defense Laboratory San Francisco, California Mice, Radiation, Tissue, Skin	1440
DAWSON, G. W. P. Trinity College Dublin, Ireland Genetics, Bacteria, Growth	1402
DAY, Jack School of Aerospace Medicine Department of Bioastronautics, USAF, Brooks AFB, Texas Telemetry, Physiology, Human	

DAY, Richard E.	1126
National Aeronautics and Space Administration	
Manned Spacecraft Center	
Houston, Texas	
Crew	
DAYE, G. T., Jr.	
Aerospace Medical Division	
Brooks AFB, Texas	
Plant, Virus, Space program	
DEAL, P. H.	1010
NASA, Ames Research Center	
Moffett Field, California	
Bacteria, Mars simulation, Exobiology	
DeANGELIS, A. M.	1191
Center of Studies and Research on Aeronautical	
and Space Medicine	
Rome, Italy	
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DeBUSK, A. Gib.	578
Florida State University	635
Tallahassee, Florida	389
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DECKER, H.	1029
Army Chemical Corps.	
Fort Detrick, Maryland	
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N. M. Highlands University	
Las Vegas, New Mexico	
Radiation, Life sciences	
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U. S. Naval Air Development Center	
Medical Acceleration Laboratory	
Johnsville, Pennsylvania	
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DEGTYAR, G. Ya.	652
USSR	
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DEGTYAREV, V. A.	
USSR	
Manned space flight	
DELGADO, Jose M. R.	
Wright Patterson AFB	
Biomedical Laboratory	
Ohio	
Pharmacology, Brain, Toxicology, Monkeys	

DELONE, N. L. 1141
USSR
Vostok spacecraft, Genetics, Radiation, Space flight

DELUCCHI, M. R. 1006
California University
Space Biology Laboratories
Los Angeles, California
Space flight, Space environment, Vibration

DEMIN, N. N.
USSR
Space flight, Blood, Urine, Metabolism

DENISOV, V. G. 621
USSR 1340
Psychology, Bioengineering, Problems, Biotelemetry, Human

DERBYSHIRE, G. A.
National Academy of Sciences
National Research Council
Washington, D. C.
Space Biology

DERY, Donald W. 1101
Naval Air Material Center
Philadelphia, Pennsylvania
Human, Space Environment, Gas exchange, Acceleration

DeSERRES, F. J.
Oak Ridge National Laboratory
Oak Ridge, Tennessee
Biosatellite

DeSTEIGUER, Roy D. 1104
Aerojet-General Corporation
Azusa, California
Animal studies, Feed

DETHIR, V. G.
Zoology Laboratory
University of Pennsylvania
Space biology

DEUTSCH, S.
US
Bioengineering

DYSINE, A.
Radiation, Life sciences

DeZUR, R. S. 1259
Martin Marietta Corporation
Martin Denver Company
Denver, Colorado
Algae, Life support system, Closed ecological system

DIAMOND, Philip Wright Patterson AFB, Ohio Physiology, Urine, Physiochemistry	315
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DIETZ, Harold W. Aerospace Medical Division School of Aerospace Medicine Brooks AFB, Texas Human, Environment, Behavior	1173
DIMANIS, V. I. Academy of Medical Sciences Institute of Normal & Pathological Physiology Moscow, USSR Radiation, Telemetry, Humans	1207 1446
DINGLEY, E. N., Jr. Bioengineering	
DINI, E. Naples Hospital Center Italy Blood, Pathology	1000
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DIXON, Richard F. School of Aerospace Medicine Brooks AFB, Texas Noise, Communication, Ear, Speech	1232
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General Dynamics Corporation	425
Groton, Connecticut	
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DOLE, S. H.	384
Rand Corporation	
Santa Monica, California	
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USSR	
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Moscow, USSR	
Tissue, Radiation	
DOLLFUS, Audouin	
Paris Observatory	
Meudon (S & O), France	
Exobiology, Planets, Organisms	
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Armed Forces Institute of Pathology	
Washington, D. C.	
Aerospace medicine, Toxicology, Closed ecology	
DOMILESCU, C.	1467
Institute of Geriatrics	
Bucharest, Rumania	
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DOMINGUEZ, Abel M.	1186
Armed Forces Institute of Pathology	
Washington, D. C.	
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Fullerton, California	
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US	
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DOUGLAS, William K. 317
NASA
Manned Spacecraft Center
Houston, Texas
Space flight, Environment, Weightlessness

DOULL, J. 1120
Chicago University
USAF Radiation Laboratory
Illinois
Mice, Radiation

DOUVILLIER, Joseph G.
US
Pilot-control, Simulation

DRYDEN, Hugh L.
Johns Hopkins University
Baltimore, Maryland
Space, Rockets, Space exploration

DUANE, T. 1463
Acceleration, Human, Eye, Physiology

DUBININ, N. P.
Laboratory of Radiation Genetics of
Institute of Biophysics
USSR
Genetics, Drosophila, Space flight, Radiation.

DuBOIS, J. 995
Wright Patterson AFB
Behavioral Science Laboratory
Ohio
Human, Gravitation

DuBOIS, Kenneth P. 1118
Chicago University 1121
USAF Radiation Laboratory 1123
Illinois 1124
Rats, Radiation, Liver, Toxicity, Aerospace medicine

DUCKWORTH, Jarjorie W. 516
Roy, Free Hospital School of Medicine
London, England
Rat, Tissue, Respiration

DUMOVA, A. M. 1374
Lengrad Science Research Institute of
Antibiotics
USSR
Pharmacology, Radiation sickness, Medicine

DURANT, Frederick C., III
Research & Advanced Development
AVCO, 201 Lowell Street
Wilmington, Massachusetts
Bioastronautics, Liaison

DURLACH, N. I. 1194
Massachusetts Institute of Technology
Lincoln Laboratory
Lexington, Massachusetts
Sense, Ear

DURLING, B. J.
US
Space flight

DURRER, John L. 1074
Aerospace Medical Division
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Dogs, Blood, Metabolism

DURST, Karl
Altenkessel/Saar.
West Germany
Psychology, Manned, Space flight

DYER, Denzel L. 1086
Space Biotechnology Section
Martin-Marietta Corporation
Denver, Colorado
Regeneration, Biological

DZHEPELEV, V. P.
USSR
Radiation

EBERSOLE, J. H.
Aerospace medical problems, Space flight

ECKSTRAND, Gordon
American Rocket Society
Committee on Bioastronautics
Air Force Systems Command
Space biology

EDIN, Andrew 1435
School of Aerospace Medicine
Brooks AFB, Texas
Biotelemetry, Respiration

EDMONDSON, P. W. 1390
U. K. Atomic Energy Research Establishment
Radiobiological Research Unit
Harwell, Berkshire, England
Radiation, Animals

EDWARDS, B. F.
Emory University
Atlanta, Georgia
Biosatellite

EDWARDS, William E. 1051
Aerospace Medical Division
Holloman AFB, New Mexico
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EGGLESTON, John M.
Flight Mechanical Branch
NASA, Langley Research Center
Space flight, Space capsule, Training, Manned, Space station

EHRICKE, Krafft A.
Convair Astronautics
General Dynamics Corporation
San Diego, California
Venus, Mars, Rockets, Space environment, Space capsule

EHRLICH, Richard 370
Illinois Institute of Technology
Chicago, Illinois
Exobiology, Mars, Plants

EIGES, N. S.
USSR
Plants, Seeds

EISENBUD, Merril 1027
New York University
New York, New York
Eye

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ELSTORP, Lars University of Gothenburg, Department of Hygiene Gothenburg, Sweden Mammal, Bioengineering, Circulatory system, Decompression	1203

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USSR
Deoxyribonucleic acid, Radiation, Rats

ENEBO, Lennart 250
Roy Institute of Technology
Stockholm, Sweden
Space flight, Food, Life support system

ENG, T. L.
Bioastronautics Section
Boeing Company
Seattle, Washington
Algae, Closed ecological system, Plant

ENGELSTAD, R. B.
Radiation, Organism

ENGHOLM, E.
US
Aerodynamic deceleration, Bioengineering

ENGLAND, Loy D. 1228
School of Aerospace Medicine
Brooks AFB, Texas
Bioengineering, Cell, Radiation

ENRLIGH, Richard 658
Armour Research Foundation
Chicago, Illinois
Growth, Algae, Extraterrestrial environment

ERCOLES, A. M. 1095
National Institute of Optics
Arcetri, Florence, Italy
Vision, Space flight

ERICKSON, R. O.
Division of Biology
University of Pennsylvania
Space biology

ERNSTING, J. 1184
R.A.F. Institute of Aviation Medicine
London Air Ministry
Bioengineering

ERSHOFF, B. H. 776
Wright Patterson AFB
Biomedical Laboratory
Ohio
Pharmacology, Radiation

ESCOBAR, Adolfo de Bordons
Madrid, Spain
Space flight, Physiology

ESTES, H. D.
Federal Aviation Agency
Aviation Medical Service
Washington, D. C.
Toxicity. Space hazards, Gaseous environment

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ETTLESON, B. L.
American Rocket Society
Committee on Bioastronautics
Spacelabs
Instrumentation, Telemetry

EUGSTER, Jakob
Geographic Medicine
Zurich University
Genetics, Radiation

EVANS, C. B. S.
Douglas Aircraft Company, Inc.
Space program, Gravitation

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EVANS, T. C.
Radiation, Space environment, Human

EVERETT, N. B.
Aeromedical Laboratory
Fort Wainwright, Alaska
Rats, Blood, Temperature control

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EVONUK, Eugene
Aerospace Medical Division
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Rats, Heart, Pharmacology, Heat regulation, Environment,
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EYGES, N. S.
USSR
Genetics, Space flight, Plants

FAIRAND, B. P. 1424
Battelle Memorial Institute
Radiation Effects Information Center
Columbus, Ohio
Radiation, Telemetry

FALLONE, E. M. 1069
North American Aviation Inc.
Space & Information Systems Division
Downey, California
Space exploration

FARKASS, E. 8
Rome, Italy
Radiation, Blood

FARRER, Donald N. 1231
Aerospace Medical Division
Aeromedical Research Laboratory
Holloman AFB, New Mexico
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FEDEVA, N. P.
UUSR
Space, Microbiology

FEDOROV, R. E.
USSR
Satellite

FEDOROV, Y. K.
USSR
Academician

FEDOROVA, G. I.
USSR
Microbiology, Space flight

FEDOROVA, T. A.
USSR
Space flight, Blood, Urine, Metabolism, Animals

FEDOROVA, V. I.
USSR
Radiation, Mouse, Rat

FEDOROVA, V. L.
Radio-Toxicological Laboratory
Institute of Industrial Hygiene
Academy of Medical Sciences
USSR
Radiation

FEIGEN, George A. 520
Stanford University
Stanford, California
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Institute of Evolutionary Physiology	
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Department of Physiology	
University of Maryland	
School of Medicine	
Baltimore, Maryland	
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Goodyear Aircraft Corporation	
Akron, Ohio	
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FERGUSON, M. L.	
Goodyear Aircraft Corporation	
Akron, Ohio	
Biosatellite	
FERNANDEZ-MORAN, H.	
University of Chicago	
Chicago, Illinois	
Physical biology, Exobiology, Molecular biology	
FERRONDEY-MORON, H.	
Mixer Laboratories for Electron Microscopy	
Massachusetts General Hospital	
Boston, Massachusetts	
Space biology	
FERSTER, C. B.	
Institute for Behavioral Research	
College Park, Maryland	
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FETNER, Robert H.	1405
School of Aerospace Medicine	
Brooks AFB, Texas	
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Chicago University	
USAF Radiation Laboratory	
Chicago, Illinois	
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St. Louis University	
School of Medicine	
Department of Physiology	
St. Louis, Missouri	
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FREMONT-SMITH, Frank
Disciplinary Series
American Institute of Biological Sciences
New York, New York
Physical biology, Environmental biology

FRENCH, John D. 561
Brain Research Institute
University of California,
School of Medicine
Los Angeles, California
Brain, Behavior, Space flight

FREYMAN, G. N.
Institute of Evolutionary Physiology
USSR
Closed ecological systems, Pressure, Respiration, Circulatory system

FRIDLYANSKAYA, I. I. 1032
Leningrad University
USSR
Algae, Chlorella

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FRILLEY, M.
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USSR
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FRIZEN, G. G.
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Space Flight Laboratory
Denver, Colorado
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U.S. Naval School of Aviation Medicine
Pensacola, Florida
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USSR
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Armed Forces Institute of Pathology	
Washington, D. C.	
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Florida State University	
Tallahassee, Florida	
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Maryland University	1370
College Park, Maryland	
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GALAMBOS, R.	
Department of Physics & Psychology	
Yale University	
New Haven, Connecticut	
Behavioral biology, CNS	
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Leningrad University	
Leningrad, USSR	
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Rochester University	
Rochester, New York	
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Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Pharmacology

GEORGIYEVSKIY, V. S.
USSR
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GERATHEWOHL, Siegfried J. 363
Aerospace Medical Division 1038
Wright Patterson AFB 1066
Ohio
Weightlessness, Environment, Space flight, Cat, Heart

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USSR 300
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GERVAIS, Robert L. 1458
Douglas Aircraft Company, Inc.
Santa Monica, California
Space flight, Manned

GEX, Robert C. 256
Lockheed Missiles & Space Company 1221
Lockheed Aircraft Company
Sunnyvale, California
Space flight, Human, Heat regulation, Bibliography,
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GILBERT, Gregg A. 1231
Aerospace Medical Division
Holloman AFB
New Mexico
Chimpanzee, Performance, Acceleration

GILBERT, L. 296
USSR
Space flight, Space capsules, Physiology

GINSBURG, L. Sh. 296
Institute of Evolutionary Physiology
USSR
Closed ecological systems, Pressure, Respiration,
Circulatory system

GINSBURG, V. L.
USSR
Artificial satellite, Earth, Radiation

GISLER, D. B.
US
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GOLD, A. J. Department of Physiology University of Maryland School of Medicine Baltimore, Maryland Dogs, Physiology, Respiration	52
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GOLDAT, S. Yu. Institute of Antibiotics USSR Space flight, Genetics, Plants	
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GOLDBLITH, Samuel A. Massachusetts Institute of Technology Cambridge, Massachusetts Closed ecological system, Nutrition, Food, Physiology, Feces, Space flight	112 246
GOLDIZEN, V. C. Lovelace Foundation for Medical Education and Research Albuquerque, New Mexico Space program, Bioengineering, Life science, Over pressures	227 547 1007
GOLDMAN, David E. Naval Medical Research Institute Bethesda, Maryland Impact, Vibration, Human	102

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GOLIKOV, A.
USSR
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USSR
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GOLUEKE, Clarence G.
Sanitary Engineering Research Laboratory
University of California
Berkeley, California
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GONON, J. P.
Air Force Systems Command
Bedford, Massachusetts
Bibliography, Humans

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GOODALL, Mc C.
University of Tennessee
Knoxville, Tennessee
Pathology, Aerospace medicine, Environment

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GOODMAN, R.
Franklin Institute
Philadelphia, Pennsylvania
Physical biology, Bioengineering, Circadian rhythms, Hamsters,
Drosophila

1208

GORANSSON, A.
University of Lund
Institute of Physiology
Laboratory of Aviation Medicine
Lund, Sweden
Decompression

GORBOV, F. O.
USSR
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GORCHAKOV, E. V.
USSR
Radiation

GORDON, L. K.
USSR
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GOWDY, Betty Illinois Institute of Technology Chicago, Illinois Exobiology, Mars, Plants	370
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GRAEUSKIY, E. Ya. USSR Radiobiology	
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GRAHAM, B.
Stanford Research Institute
Stanford, California
Physical biology, Photochemistry, Plant, Chloroplast

GRAMENITSKIY, P. M.
Institute of Evolutionary Physiology
USSR
Closed ecological systems, Pressure, Respiration, Circulatory system, Toxicity, Human, Gaseous environment

GRANDJEAN, Etienne 892
Eidgenossische Technische Hochschule,
Zurich, Switzerland
Behavior, Sense

GRANDPIERRE, R. 221
Centre d'Enseignement et de Recherches de Medecine 1148
Aeronautique
Paris, France
Physiology, Space flight, Bioengineering, Weightlessness, Rat, Neurology

GRANT, W. B. 1357
Argonne National Laboratory
Illinois
Radiation, Human

GRAU, R. 1013
Martin Marietta Corporation
Martin Company
Denver, Colorado
Bioengineering

GRAUL, E. H. 1201
Universitat Marburg/Lahn
Abteilung fur Strahlenbiologie und Isotopenforschung
Marburg/Lahn, Germany
Aerospace medicine, Radiation, Space flight, Space hazards

GRAUNOV, O. V.
Academy of Sciences
Institute of Evolutionary Physiology
USSR
Weightlessness, Brain, Blood

GRAVELINE, Duane E. 319
USAF Aeronautical Systems Division 323
Wright Air Development Division 355
School of Aviation Medicine 778
Brooks AFB, Texas
Environment, Weightlessness, Physiology, Psychobiology, Hypodynamics, Heart, Excretion

GRAVENDEEL, D. W. Institute for Perception RVO-TNO Soesterberg, Netherlands Ear	1196
GRAY, R. Flanagan USS Lake Champlain Care of Fleet Post Office New York City, New York Physiology, Heart, Aerospace medicine, Space flight, Senses, Eye	230 318
GRAY, S. W. Emory University Atlanta, Georgia Biosatellite	
GRAY, William D. Department of Botany & Plant Pathology Ohio State University Columbus, Ohio Plant, Fungi, Food	
GRAYBIEL, Ashton U.S. Naval School of Aviation Medicine U.S. Naval Aviation Medical Center 54 Division of Research Pensacola, Florida Environment, Aerospace medicine, Aerometeorism, Semicircular, Canals, Gravity, Psychology, Physiology, Senses, Monkey, Space flight, Urine, Biosatellite	1 3 4 105 115 337 554, 1146 1380, 1483
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GREEN, D. M. Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts Pilots, Behavior, Training	
GREEN, F. H. US Life sciences	

GREEN, H. C.
US
Medicine, Sense

GREEN, J.
Brooks AFB
Texas
Life support, Moon

GREENE, D.
Services Electronics Research Laboratory
Baldock, Great Britain
Radiation, Medicine

GREENE, V. M.
General Mills
Electronics Division
St. Paul, Minnesota
Exobiology, Microorganisms, Mars

GREIDER, H. R.
US
Pressure suit

GRENELL, R.
University of Maryland
Baltimore, Maryland
Behavioral biology, Cells, CNS, Stimuli

GRETHER, Walter F.
Wright Patterson AFB
Ohio
Psychology, Human, Space program

GRIGOROV, N. L.
USSR
Radiation, Satellite, Earth

GRIGOR'YEV, Yu. G.
USSR
Radiation, Animal, Time factor, Organism

GROSSENBACKER, R.
Exobiology, Space exploration

GRUBER, Alin
L. G. Hanscom Field
Decision Science Laboratory
Bedford, Massachusetts
Senses, Performance, Behavior

GRUNBERG, M.
c/o Books of Abstracts
Montreal, Quebec, Canada
Senses, Psychology, Neurology

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Leningrad, USSR	
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U.S. Naval Aviation Medical Center	
Pensacola, Florida	
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Ministry of Science Research and Cultural Affairs,	
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Ear, Embryo	
GUIGNARD, J. C.	
RAF Institute of Aviation Medicine	
Farnborough, Hants, England	
Vibration, Human	
GUILLOU, R. B.	
Edgerton Germeshausen and Grier, Inc.	
Santa Barbara, California	
Radiation, Environment	
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Academy of Sciences	
Institute of Experimental Biology & Medicine of Siberian Department	
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Oak Ridge, Tennessee	
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HABER, Heinz
University of California
Los Angeles, California
Psychophysics, Weightlessness, Space medicine

HAGEN, Charles A. 1350
Armour Research Foundation
Chicago, Illinois
Extraterrestrial life

HAGEN, Douglas H. 322
School of Aviation Medicine
Brooks AFB, Texas
Behavior, Senses, Human

HAHN, E. W. 1408
Rochester University
Rochester, New York
Survival, Radiation, Rat

HALBERG, F.
University of Minnesota
Minneapolis, Minnesota
Biosatellite

HALEY, Thomas J.
Rome, Italy
Radiation, Pharmacology, Blood, Neurology, Medicine

HALL, A. L. 575
Life Science Department 592
U.S. Naval Missile Center
Environmental Division
Point Muga, California
Life support system, Space flight, Requirements, Physiology,
Behavior, Respiration

HALL, Charles E.
Stress, Space flight

HALL, F. G.
Duke University
Durham, North Carolina
Mammals, Respiration, Physiology

HALL, J. F. 1209
Aeronautical Systems Division
Biothermal Branch 6570th
Aerospace Medical Research Laboratories
Wright Patterson AFB, Ohio
Physiology, Environment, Heat regulation

HALLAM, A. P.	272
Aerospace Medical Division	312
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Norair Division	
Hawthorne, California	
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HAMILTON, W. J.	
California Academy of Sciences	
San Francisco	
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Rochester University	
Rochester, New York	
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HANSEN, J. Thomas	
Department of Physiology	
University of California	
Berkeley 4, California	
Physiology, Primates	

HARADA, Kaoru
Exobiology

HARDY, James D.
Research Division
Aviation Medical Acceleration Laboratory
Naval Air Development Center
Johnsville, Pennsylvania
Gravitation, Manned, Heat regulation, Temperature control,
Dynamic flight simulation

HARGREAVES, John J. 1204
USAF School of Aerospace Medicine
Environmental Systems Branch
Bioastronautics Department
Brooks AFB, Texas
Physiology, Environment

HARLOW, H. F.
Radiation, Primates

HARRIS, C. S.
U.S. Naval School of Aviation Medicine
U.S. Naval Aviation Medical Center 54
Pensacola, Florida
Psychology, Physiology, Semicircular canals

HARRIS, Donald G. 1008
Agricultural Research Service
Soil and Water Conservation Research Division
Watkinsville, Georgia
Plant, Closed ecology

HARRIS, Payne S.
Los Alamos Scientific Laboratory
Los Alamos, New Mexico
Space biology

HARRISH, N.
Metabolism, Bacteria, Space flight

HARTLINE, H. Keffer
National Academy of Sciences
Space biology

HARTMAN, Bryce O. 324
School of Aviation Medicine 355
Medical Psychology Section
Neuropsychics Branch
Brooks AFB, Texas
Space capsule, Space program, Human, Psychobiology, Behavior

HASEGAWA, A. 1120
Chicago University
USAF Radiation Laboratory
Chicago, Illinois
Mice, Motion sickness, Aerospace medicine, Radiation

HAUTY, George T. 124
Civil Aeromedical Research Institute 362
Oklahoma City, Oklahoma
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Psychiatry, Acceleration

HAVILAND, Robert P.
Missil and Space Vehicle Department
General Electric Company
Philadelphia, Pennsylvania
Space flight, Biosatellite

HAWKINS, Willard R.
Weightlessness, Physiology, Sub-gravity

HAWRYLEWICZ, Ervin 370
Illinois Institute of Technology
Armour Research Foundation
Chicago, Illinois
Exobiology, Mars, Plants, Environmental biology

HAYES, Edward L.
Air Crew Equipment Laboratory
Naval Air Material Center
Philadelphia, Pennsylvania
Bioengineering, Life support systems

HAYES, Wayland J. 1015
U.S. Public Health Service
Communicable Disease Center
Toxicology Section
Atlanta, Georgia
Toxicology, Exobiology, Spacecraft sterilization

HAYMAKER, Webb 549
Ames Research Center - NASA 1024
Moffett Field, California
Brain, Mouse, Cosmic radiation, Monkey, Balloon

HAYTHORN, W. W. 1113
Rand Corporation
Santa Monica, California
Space program

HAYWARD, Mary E. 1122
Chicago University
USAF Radiation Laboratory
Chicago, Illinois
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HAYWORKER, W.	
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Ohio	
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HEARTLINE, H. K.	
Biophysics Section	
Rockefeller Institute	
New York, New York	
Space biology	
HEIM, T.	
Acceleration, Physiology, Organism	
HEINSHEIMER, T. F.	
Convair Astronautics Division	
General Dynamics Corporation	
San Diego, California	
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HELLMAN, A.	
Aerospace Medical Division	
Brooks AFB, Texas	
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Bioacoustics Laboratory	
Syracuse, New York	
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HELVEY, Tibor Charles	
Philos. Ortronix, Inc.	
State University of South Florida	
Orlando, Florida	
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HELVEY, W. M.	1235
Republic Aviation Corporation	1468
Farmingdale, New York	1457
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Arctic Aeromedical Laboratory	1108
Fort Wainwright, Alaska	1115
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Naval Air Material Center	
Philadelphia, Pennsylvania	
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University of Southern California	
Los Angeles, California	
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Animal studies, Sub gravity, Space cabin, Closed ecological	
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HENRY, I.	
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HERMACH, C. A.	
US	
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Boston, Massachusetts	
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St. Louis University	
School of Medicine	
Department of Physiology	
St. Louis, Missouri	
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HESSBERG, Rufus R.	1139
USAF, Aeromedical Laboratory	
Holloman AFB	
New Mexico	
Space environment	
HETHERINGTON, Albert W.	
Human Factors Division	
USAF - Andrews Field, Maryland	
Bioinstrumentation, Bioastronautics	

HEWITT, John E. USAF Aerospace Medical Center Brooks AFB, Texas Radiation, Mouse, Balloon, Space environment, Brain	387 1024
HIATT, Edwin P. Ohio State University Research Foundation Department of Physiology 1314 Kinnear Road Columbus 12, Ohio Gaseous environment, Human, Exposure	560
HIBBS, Albert R. Division of Space Science Jet Propulsion Laboratory Pasadena, California Space exploration, Astronaut, Space capsule, Micrometeorites, Bioengineering, Moon	
HIBINO, Susumu Nagoya Univeristy School of Medicine Japan Bone, Blood, Radiation, Rats	1001
HIETBRINK, Bernard E. Chicago University USAF Radiation Laboratory Chicago, Illinois Rats, Liver, Radiation, Enzyme	1121 1122 1123
HIGHLY, Francis M., Jr. Naval Air Material Center Philadelphia, Pennsylvania Human, Space environment, Gas exchange, Acceleration	1101
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HITTMAIR, A.
Innsbruck University
Austria
Space environment, Blood

HIXSON, W. C.
U.S. Naval School of Aviation Medicine
US. S Naval Aviation Medical Center 54
Pensacola, Florida
Acceleration, Pilots, Aerospace medicine, Zero gravity, Space flight, Monkey

HOFFMAN, Robert K. 237
Army Chemical Corps 1029
Fort Detrick, Maryland
Microorganisms, Bacteria, Sterilization of spacecraft

HOLDEN, George R. 1205
NASA, Ames Research Center
Moffett Field, California
Heart, Acceleration

HOLLAENDER, Alexander
AEC - Oak Ridge National Laboratories
Oak Ridge, Tennessee
Radiation, Environmental biology, Biosatellites

HOLMES, M. H.
US
Space flight, Monkey

HOLMES, R. H.
Monkey, Space flight

HOLM-HANSEN, O.
US
Metabolism

HONDA, N. 801
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Mammal, Body temperature, Ear, Circulatory system, Environment

HOOVER, G. W. 994
Douglas Aircraft Company, Inc.
Missile and Space Systems Division
Santa Monica, California
Bioengineering, Environment

HOOVER, George N. 121
North American Aviation
Space and Information Systems Division
Downey, California
Respiration, Human, Vibration, Bioengineering

HORD, Richard A.
Aero Research Engineering
Langley Research Center
NASA
Space flight, Space environment

HOROWITZ, Norman H. 223
California Institute of Technology 878
Pasadena, California
Life Sciences, Space, Space program, Exobiology, Mars,
Radioisotope probe, Microorganisms, C¹⁴

HOUGHTON, Karl H.
USAF Surgeon General's Office
Washington 25, D. C.
Tolerance, Radiation, Space flights

HOVNANIAN, H.
Avco Corporation
Massachusetts
Environmental biology, Fungi, Physiology, Luminescence

HOWE, John T.
Ames Research Center, NASA
Moffett Field, California
Radiation, Impact, Balloon

HOWLAND, Joe W. 1443
Rochester University
Rochester, New York
Bibliography, Physiology, Radiation

HUANG, Su-Shu
Institute for Advanced Study
Princeton, New Jersey
Exobiology

HUMPHREYS, J. W., Jr. 341
USAF Hospital
Lackland, Texas
Aerospace medicine, Life support system

HUNDLEY, Lee 998
Stanford University
Instrumentation Research Laboratory
Genetics Department
Stanford, California
Space exploration, Mars, Aerospace medicine

HUNTER, H.
Acceleration, Human, Physiology, Space flight

HUNTER, Maxwell W.
Space Systems
Santa Monica Division
Douglas Aircraft Company, Inc.
Santa Monica, California
Moon, Space capsule, Manned, Space program

HUNTINGTON, Dorothy A. 1232
School of Aerospace Medicine
Brooks AFB, Texas
Noise, Communication, Ear, Speech

HURT, G. J.
US
Automatic control

HURTADO, A.
US
Physiology

HUTCHINSON, Franklin 391
New Mexico Highlands University
Las Vegas, New Mexico
Radiation, Life Sciences

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Wright Patterson AFB 360
Ohio
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Quartermaster Research and Engineering Center	
Natick, Massachusetts	
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Institute of Chemical Physiology	
Academy of Science	
USSR	
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IANUSHEVSKAIA, M. Ia.	1200
Severtsov Institute of Animal Morphology	1392
Moscow, USSR	
Radiation, Mammal, Bone, Genetics	
IBERALL, A. S.	787
Rand Development Corporation	
Cleveland, Ohio	
Bioengineering, Physiology	
IBISON, R. A.	
Space cabin simulator, Bioengineering	
ILL'INA, I. A.	
USSR	
Space flight, Food, Nutrition	
IL'INA, S. S.	770
Academy of Medical Science	1293
Moscow Institute of Biophysics	
Moscow, USSR	
Space flight, Blood, Cells, Mice	
IL'INSKAYA, N. B.	
USSR	
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IL'NITSKIY, A. M.	599
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USSR	
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Moscow, USSR	
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Academy of Sciences	1145
Institute of Microbiology	1158
Moscow, USSR	
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Newport Beach, California	
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New York City, New York	
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North Carolina State College	
Raleigh, North Carolina	
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ISAKOV, P. K.	
Academy of Medical Sciences	
Institute of Normal and Pathological Physiology	
Moscow, USSR	
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IVANENKO, I. P.	
USSR	
Radiation	
IVANOV, A. Ye.	1311
USSR	
Physiology, Breathing, Human, Pressure	
IVANOV, G. I.	
Institute of Evolutionary Physiology	
USSR	
Closed ecological systems, Pressure, Respiration, Circulatory system	
IVANOV, K. V.	
USSR	
Acceleration, Radiation, Rats	
IVCHENKO, O. I.	
Institute of Evolutionary Physiology	
USSR	
Closed ecological systems, Pressure, Respiration, Circulatory system	

IVENS, T.

USSR

Radiation

IWAUCHI, Takashi

Nagoya University

School of Medicine

Japan

Bone, Blood, Radiation, Rats

1001

IZOSIMOV, G. V.

USSR

Acceleration, CNS, Brain, Human

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JACKSON, B. H.
US
Rat, Radiation, Thermal balance

JACOBIUS, Arnold J. 264
Science and Technology Division
Library of Congress
Washington, D. C.
Bibliography, Space medicine, Physiology, Bioastronautics

JACOBS, Paul D. 1231
Aerospace Medical Division
Holloman AFB
New Mexico
Chimpanzee, Performance, Acceleration

JACOBSON, Edmund
Laboratory for Clinical Physiology
Chicago, Illinois
Psychology, Neurology, Adaptation

JACOBSON, Jerry Hart 1036
Wright Patterson AFB
Biophysics Laboratory
Ohio
Heat energy, Eyes

JAFFE, L. D.
California Institute of Technology
Jet Propulsion Laboratory
Pasadena, California
Sterilization, Space capsule

JAFFE, L. S. 810
Federal Aviation Agency 788
Aviation Medical Service
Washington, D. C.
Toxicity, Space hazards, Closed ecology, Gaseous atmosphere

JAKUCS, Pal 1217
Budapest
Plant, Environment

JANSSEN, P.
US
Mice, Cosmic radiation

JAQUES, B. 794
Saskatchewan University
Saskatoon Canada
Psychology, Animal studies, Pharmacology, Medicine

JASPERS, G.
Heart, Pilots, Physiology

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JELEK, L.
Charels University
Prague, Czechoslovakia
Rat, Acceleration, Aerospace medicine

JENSEN, D. H.
College of Engineering
University of Iowa
Iowa City, Iowa
Physiology, Space flight, Bioengineering

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JENSEN, Jens A.
US Public Health Service
Communicable Disease Center
Toxicology Section
Atlanta, Georgia
Toxicology, Exobiology, Spacecraft sterilization

1015

JENSON, Robert L.
Department of Internal Medicine
School of Aviation Medicine
Brooks AFB
Texas
Blood, Rat, Space cabin

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JEWEL, J. W.
US
Pilot-controlled

JOHNSON, G. E.
US
Sense, Psychology, Human

JOHNSON, Louis F., Jr.
Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB, Texas
Oxygen, Environment, Respiration, Human, Biotelemetry

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JOHNSON, M. T.
Biomedical Laboratory
MRM, AMRL, Dayton, Ohio
Physiology, Ear, Physiochemistry

JOHNSON, O. S.
University of California
Los Almos Scientific Laboratory
Los Alamos, New Mexico
Mouse, Radiation

1393

JOHNSON, Paul K.
Stanford University
Stanford, California
Rat, Growth, Blood

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JOHNSON, S. P. North American Aviation, Inc. Space and Information Systems Division Life Science Department Downey, California Bioengineering, Zero-gravity, Environment	1264
JOHNSON, Walter H. Aerospace Medical Division Wright Patterson AFB, Ohio Motion sickness, Acceleration	1044
JOHNSTON, Richard S. NASA Manned Spacecraft Center Houston, Texas Space flight, Environment, Weightlessness	317
JONES, Hardin B. University of California Space Sciences Laboratory Berkeley 4, California Bioinstrumentation, Physiology, Mammals, Cellular physiology, Biochemistry, Physical biology	646
JONGBLOED, Jacob Physiological Laboratory Rijksuniversiteit Vondellaan 24, Utrecht, Netherlands Space medicine	
JORDAN, H. W. Aerospace Medicinal Division Brooks AFB, Texas Plant, Virus, Space program	
JOSEPH, Arnold B. Atomic Energy Commission Washington, D. C. Environment, Radiation, Space	1425
JOUNG, W. D. US Payloads	
JROJAN, S. Charels University Prague, Czechoslovakia Rat, Acceleration, Aerospace medicine	
JUDY, W. V. Arctic Aeromedical Laboratory Fort Wainwright, Alaska Mammal, Body temperature, Ear, Circulatory system, Environment	801
JURY, E. I. University of California Dept. of Electrical Engineering & Electronics Res. Laboratory Berkeley, California Bioengineering	1197

KABANOVA, L. A.	770
Academy of Medical Sciences	1293
Institute of Biophysics	
Moscow, USSR	
Space flight, Blood, Cells, Mice	
KADO, R. T.	1006
California University	
Space biology Laboratories	
Los Angeles, California	
Space flight, Space environment, Vibration	
KAEHLER, Richard C.	
Rocketdynamic Division	
North American Aviation Inc.	
Canoga Park, California	
Acceleration, Pilot-control	
KAISER, Kenneth K.	98
Wright Patterson AFB,	
Ohio	
Aerospace medicine, Abrupt, Acceleration	
KAKUSHKINA, M. L.	1056
USSR	
Protein, Radiation, Pharmacology, Oxygen effect	
KALAYAYEVA, E. S.	1293
Academy of Medical Sciences	770
Institute of Biophysics	
Moscow, USSR	
Space flight, Blood, R-E system, Cells, Mice	
KALLFEIZ, I.	1030
Deutsche Versuchsanstalt fur Luft- und Raumfahrt	
West Germany	
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KALTER, S. S.	
Aerospace Medical Division	
Brooks AFB, Texas	
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Aerospace Medical Division	123
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Ohio	
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Vision, Gravity, Performance	
KAMALYAN, V. Sh.	
USSR	
Genetics, Altitude, Space	

KAMENSKIY, Yu. I.
Central Institute of Health Resorts & Physiotherapy
USSR
Microwaves, Biological

KAMMERMEYER, K.
College of Engineering
University of Iowa
Iowa City, Iowa
Physiology, Space flight, Bioengineering

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KANAOETS, O. L.
Laboratory of Radiation Genetics
Institute of Biophysics
Moscow, USSR
Genetics, Drosophila, Space flight

KANTER, G. S.
School of Aerospace Medicine
Brooks AFB, Texas
Urine, Heat regulation, Dog, Physiology

887
1412

KANTOROVICH, M.
USSR
Telepathy

KAPICHNIKOV, M. M.
USSR
Histology, Space flight, Microbiology

KAPITANOV, R. A.
All-Union Scientific Research Institute
of Medical Instruments & Equipment
Biotelemetry

KAPLAN, I.
California Institute of Technology
Exobiology, Biochemistry, Meteorites

KAPLAN, N.
Brandeis University
Waltham, Massachusetts
Exobiology, Chemical evolution, Enzymes, DNA

KARAMZINA, N. M.
USSR
Radiation

KARAZINA, S. A.
USSR
Brain, CNS, Light, Physiology

1413

KARN, H.
Carnegie Institute of Technology
Pittsburgh, Pennsylvania
Senses, Vision, Behavior

KARPECHENKO, G. S.
Space flight, Genetics

KARPOVA, L. I.
USSR
Animals, Food, Space flight, Bioengineering, Dogs, Training,
Environment, Space capsule, Closed ecological system

KARVONAN, M. J.
Institute of Occupational Health
Helsinki, Finland
Heat regulation, Human, Heat

KASKAN, I. I.
USSR
Manned space flight

KASPAREK, C. F.
US
Aerometeorism

KASPRZYK, K.
US
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Academy of Medical Sciences 247
Moscow, USSR 329
Physiology, Gravitation, Biochemistry, Food, Radiation, CNS,
Acceleration, Weightlessness, Space flight, Blood, Animals,
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KATZBERG, Allan A. 36
Department of Microbiology-Cellular Biology 37
School of Aviation Medicine 38
Brooks AFB, Texas 626
Radiation, Mammal, Tissue, Culture, Space flight, Human

KAUFMAN, W. C. 1445
USAF Systems Command
Aeronautical Systems Division 6570th
Aerospace Medical Research Laboratories
Wright Patterson AFB, Ohio
Human, Environment, Space

KAWAMURA, Y. 1107
Arctic Aeromedical Laboratory 1108
Fort Wainwright, Alaska
Brain, Shivering

KAY, R. E. 1377
Aeronutronic
Newport Beach, California
Bioengineering, Exobiology, Remote sensing, Proteins

KAZAR'YAN, L. A. 269
USSR 279
Dogs, Space flight, Biotelemetry, Heart

KAZYKINE, Victor 1426
Plant, Space program

KEATING, Donald A. 269
Wright Patterson AFB 279
Ohio
Closed ecological system, Physiology, Respiration, Life support,
Space environment, Space medicine

KEDROV, A. A. 1426
National Aeronautics and Space Administration
Washington, D. C.
Physiology, Circulatory system, Brain

KEHLET, Allan B. 1140
Goddard Space Flight Center 1395
NASA
Aerodynamic stability, Project Mercury, Balloon

KEIRIM-MARKUS, I. B. 1140
USSR 1395
Radiation, Space flight, Space environment

KELLAWAY, P. 576
Baylor University Medical School
Houston, Texas
Behavioral biology, Senses, Hearing

KELLER, Wayne H. 1070
National Research Corporation 1236
Cambridge, Massachusetts
Microorganisms, Extraterrestrial life, Closed ecology,
Environment, Spores, Spacecraft sterilization

KELLOGG, Ralph H. 885
University of California
Medical Center
Department of Physiology
San Francisco, California
Respiration, Environment

KELLY, Clarence F. 555
Department of Agricultural Engineering
University of California
College of Agriculture
Davis, California
Physiology, Weight

KELLY, G. F. US Naval Missile Center Point Mugu, California Bioengineering, Space flight	406
KELLY, H. B. Physiology Branch Bio-Environmental Division Life Sciences Department U.S. Naval Missile Center Point Mugu, California Life support requirements	
KEMLER, Dorothy K. USAF Wright Air Development Center Dayton, Ohio Life support systems, Senses, Psychology	365
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KENK, Roman Science and Technology Division Library of Congress Washington, D. C. Bibliography, Space medicine, Physiology	264
KENNEBECK, M., Jr. McClellan AFB Toxicity	1037
KENNEDY, E. R. US Semicircular canals, Senses	
KENNEDY, Robert S. U.S. Naval Aviation Medical Center Pensacola, Florida Environment, Aerospace medicine, Psychology, Physiology, Semicircular canals	337
KERKIS, Yu. Ya. Institute of Cytology and Genetics Siberian Department Academy of Sciences USSR Genetics, Radiation	
KESHMIRI, Marjorie Chicago University USAF Radiation Laboratory Chicago, Illinois Rats, Radiation, Enzyme	1122 1123

KHARKEVICH, A. A.	
USSR	
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KHAZANOV, V. S.	597
Institute of Plant Physiology	1316
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KHILOV, K. L.	
USSR	
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KHLEBNIKOV, G. F.	568
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USSR	
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KHLOPIN, G. V.	586
USSR	
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KHOLLENDER, E.	
USSR	
Cells, Radiation	
KHOLODOV, Yu. A.	
Higher Nerveons Activity	
Academy of Sciences	
USSR	
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KHROPOVA, V. I.	1032
USSR	
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KHVOSTOVA, V. V.	662
Institute of Biophysics	1142
USSR	1297
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KIKTENKO, V. S.	1439
Moscow, USSR	
Survival, Microorganisms, Pathology, Environment	
KIM, Jip	1106
School of Aerospace Medicine	
Brooks AFB, Texas	
Genetics	

KING, Barry G. Operations Research Inc. Silver Spring, Maryland Weightlessness, Physiology, Space flight, Environment	295 351
KINNEN, Edwin School of Aerospace Medicine Brooks AFB, Texas Biotelemetry, Respiration	1435
KINSEY, Jack L. U.S. Navy Special Projects Office Washington, D. C. Gaseous environment, Closed ecology	1279
KISELEV, A. A. USSR Acceleration, Blood, Gas exchange, Respiration	622 1306
KISELEV, N. A. USSR Deoxyribonucleic acid, Radiation, Rats	
KISSEN, A. T. USAF Systems Command Aeronautical Systems Division Wright Patterson AFB, Ohio Physiology, Environment, Heat regulation, Temperature control, Human, Animals	1209
KITAYEV-SMYK, L. USSR Weightlessness, Fish, Birds, Mice, Rats, Rabbits, Cats, Dog	
KITZINGER, Charlotte National Naval Medical Center Naval Medical Research Institute Bethesda, Maryland Bioengineering, Thermal balance, Human	992 1185
KJELLEBERG, Raymond N. Massachusetts General Cyclotron Laboratory Harvard University Cambridge, Massachusetts Radiation, Animal studies, Biologic systems	
KLAIN, George J. Aerospace Medical Division Arctic Aeromedical Laboratory Fort Wainwright, Alaska Rat, Tissue, Environment, Pigments, Metabolism, Toxicity	1434

KLECZEK, J.
High Altitude Observatory
Boulder, Colorado
Organism, Exobiology, Environment

KLEIN, Sidney J.
Air Crew Equipment Laboratory
Naval Air Material Center
Philadelphia, Pennsylvania
Pressure suit

KLEMPARSKAYA, N. N.
Institute of Experimental Biology
USSR
Space flight, Immunology, Microbiology, Radiation, Animals

KLIMOV, V. Yu.
USSR
Microbiology, Space flight

KLOSOVSKY, Boris
USSR
Space biology

Knezek, R. A.
Chance Vough Corporation 1255
Astronautics Division
Power and Environment Section
Dallas, Texas
Bioengineering, Suit, Space environment, Heat

KNIFFEN, D. A.
US
Anion, Radiation

KNIGHT, L.
Physiology, Zero-gravity

KNOLL, H.
Radiation, Microorganisms, Meteorobiology

KOBLET, R.
Instituts fur Pflanzenbau
ETH, Zurich, Switzerland
Radiation

KOCH, C. 1192
G. Gradenigo Medico-Legal Institute
of Military Aeronautics
Naples, Italy
Brain, Ear, Medicine

KOCH, Robert B.
Honeywell-Minneapolis Regulation Company
Hopkins, Minnesota
Nutrition, Algae

KOEHLER, Andreas M. Harvard University Cambridge, Massachusetts Radiation, Animal studies, Biologic systems	
KOESTERER, M. Wilmot Castle Corporation Spacecraft sterilization	
KOGAN, A. M. USSR Tissue, Radiation	
KOHTIAO, August Wright Patterson AFB Ohio Heat Energy, Eyes	1036
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KOMAROVA, R. S. Central Institute of Medical Radiology USSR Ministry of Health Pharmacology, Oxygen effect	
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KONIKOFF, J. J. Space Sciences Laboratory Missil and Space Division General Electric Company Philadelphia, Pennsylvania Space flight, Closed ecological system, Space environment, Gas exchange, Respiration, Water cycle	222 270 811 1385

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KORNHAUSER, M.	
Missile and Space Vehicle Department	
General Electric Company	
Philadelphia, Pennsylvania	
Gravity, Manned station	
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KORSHUNOVA, V. S.	
Biology and Soil Science Department	
Moscow State University	
USSR	
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Federal Aviation Agency	
Oklahoma City, Oklahoma	
Physiology, Space flight, Chickens, Rats	
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USSR	
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KRALL, A. R.	431
Research Institute for Advanced Studies	
Baltimore, Maryland	
Algae, Physiology, Gas exchangers	

KRANER, L.	1024
U.S. Armed Forces Institute of Pathology	
Washington, D. C.	
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University of Maryland	1363
College Park, Maryland	1370
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U.S. Naval Radiological Defense Laboratory	
San Francisco, California	
Radiation, Pathology	
KRIVISKIY, A. S.	1415
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KRUEGER, Albert P.	628
Department of Bacteriology	
University of California	
Graduate School	
Berkeley, California	
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KRUGLYAKOVA, K. Ye.	
USSR	
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KRYLOV, A. V.	
Institute of Plant Physiology	
USSR	
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Bolt, Beranek and Newman, Inc.	
Cambridge, Massachusetts	
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American Machine and Foundry Company	
Niles 48, Illinois	
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Minnesota University	
Minneapolis, Minnesota	
Biotelemetry, Respiration	
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Denver, Colorado	
Physiology, Human, Moon, Gravity, Life support system,	
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KUEHNEL, Helmut A.	
Langley Research Center - NASA	
Hampton, Virginia	
Behavior, Bioengineering	
KUETTNER, Joachim P.	
Manned space flight	
KUIPER, G.	
University of Arizona	
Exobiology, Microscopy	
KULIKOVSKIY, G. G.	
USSR	
Ear, Training, Pilot, Space flight	
KURBJUN, M. C.	
Control and Simulation Section	
Langley Research Center - NASA	
Hampton, Virginia	
Pilot, Manned Space capsule	
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KUSHAKOVSKIY, M. S.
USSR
Radiation, Pharmacology, Human

KUZNETSOV, A. G.
Respiration, Oxygen, Pressure, Physiology

KUZNETSOV, V. I.
USSR
Radiation, Pharmacology, Human

KUZNETSOV, V. S. 656
USSR 1303
Weightlessness, Bioengineering, Speech

KURNOSOVA, L. V.
USSR
Artificial satellite, Earth, Radiation

KUZNETSOVA, M. A. 615
Academy of Sciences of the USSR 642
Institute of Biological Physics 1301
Moscow, USSR 1313
Radiation, Senses, Neurology, Space flight, Ear, CNS,
Guinea pig

KUZNETSOVA, N. N. 1218
USSR
Mouse, Radiation, Embryo, Growth

KVASNIKOVA, L. N.
USSR
Organism, Radiation

KVITKO, K. V. 1032
USSR
Algae, Chlorella

KYDD, George H. 349
Franklin Institute Laboratory
Philadelphia, Pennsylvania

LABORIT, H.
Centre d'Etudes et de Recherches Bio-Physiologique
Paris, France
Pharmacology

LACEY, Dane Eugene Federal Aviation Agency Oklahoma City, Oklahoma Physiology, Space flight, Chickens, Rats	1379
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LALLI, Giuseppe Centro di Studi e Richerche di Medicina Aeronautica e Spaziale Rome, Italy Toxicity, Rats, Enzymes, Acceleration, Space hazards	1076
LAMB, Lawrence E. Department of Internal Medicine USAF School of Aviation Medicine Brooks AFB Texas Escape, Biomedical evaluation	348 889
LAMBERTSEN, Christian J. University of Pennsylvania Philadelphia, Pennsylvania Manned exploration of space, Speech	
LANCASTER, John H. School of Aerospace Medicine Brooks AFB Texas Algae, Nutrition, Space flight	427
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LANGE, K. O. University of Kentucky Lexington, Kentucky Behavioral biology, Gravity	
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LANSBERG, M. P.
Acceleration, Senses, Physiology

LAPKIN, Yu. A.
USSR
Genetics, Drosophila, Space flight, Radiation

LAPP, C.
National Academy of Science
National Research Council
Washington, D. C.
Physical biology

LA RUE, F.
Martin Marietta Corporation
Martin Company
Denver, Colorado
Bioengineering

LASSITER, Sylvester
Brooks AFB
Texas
Radiation, Cells, Spores, Microorganisms, Space flight

LATHROP, Richard G.
Aviation Medical Acceleration Laboratory
U. S. Naval Air Development Center
Johnsville, Pennsylvania
Acceleration, Bioinstrumentation, Psychology

LATORRE, Victor R.
Boeing Company
Aero-Space Division
Seattle, Washington
Communication

LAUGHLIN, Patrick C.
NASA
Houston, Texas
Space flight, Environment, Weightlessness

LAUNER, Robert L.
School of Aerospace Medicine
Brooks AFB
Texas
Bioengineering, Cell, Radiation

LAURENCE, James C.
Magnetics Section
Electromagnetic Propulsion Division
Lewis Research Laboratory - NASA
Manned, Space capsules, Noise

LAUVER, L. S.
US
Acceleration, Canal sickness

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LAWTON, Richard W. General Electric Company Philadelphia, Pennsylvania Bioengineering, Space capsule, Human, Weightlessness, Physiology, Pathology, Biosatellite	409 1222
LEBEDEVA, L. I. Institute of Cytology and Genetics Siberian Department Academy of Sciences USSR Genetics, Radiation	
LEBEDINSKIY, A. V. USSR Problems, Radiation, Space flight, CNS	638 1366
LEBISH, I. J. US Mice, Cosmic radiation	
LEDERBERG, Joshua Stanford University Instrumentation Research Laboratory Genetics Department Stanford, California Space exploration, Exobiology, Microorganism, Mars, Microscopy	376 998
LEE, J. M. Arctic Aeromedical Laboratory Fort Wainwright, Alaska Heat regulation	1009
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LEEUWE, H. Space hazards, Toxicity, Environment	
LEMMON, Richard M. National Aeronautics and Space Administration Ames Research Center Moffett Field, California Nucleic acid, Radiation, Gaseous environment	1445
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LEVASHOV, V. V.
USSR
Acceleration, Pilot, Space flight

LEVEILLE, G. A. 442
U.S. Army Medical Research and Nutrition Laboratory
Fitzsimons General Hospital
Denver, Colorado
Algae, Food, Animal studies

LEVERETT, S.
Human, Acceleration

LEVIN, G.
Resources Research Inc.
Washington, D. C.
Radioisotope probe, Microorganisms, Exobiology, Cl¹⁴

LEVINA, V. L.
Radiation, Tissue, Animal studies

LEVINE, Raphael B.
Weightlessness

LEVINTHAL, Elliott 998
Stanford University
Instrumentation Research Laboratory
Genetics Department
Stanford, California
Space exploration, Exobiology, Mars

LEVITINA, N. A.
Central Institute of Health Resorts and Physiotherapy
USSR
Microwaves, Biological

LEVY, E. Z.
US
Sense, Psychology, Human

LEVY, LEONARD
Allen Memorial Hospital
Montreal, Canada
Human, Psychology, Pharmacology, Sense

LEY, Glen D. 354
Indiana University
School of Medicine
Indianapolis, Indiana
Physiology, Blood, Heart

LIBIN, Yu. M.
Institute of Evolutionary Physiology
USSR
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LILLY, J. C. Communications Research Institute Miami, Florida Behavioral biology, Communication	
LIM, T. P. K. Arctic Aeromedical Laboratory Fort Wainwright, Alaska Heart, Heat regulation, Gas exchange	779
LINDBERG, Evan F. Mayo Clinic and Mayo Foundation Rochester, Minnesota Acceleration, Physiology, Heart	117
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LINDER, Gerald S. Human Factor Group Los Angeles Division North American Aviation Inc. Los Angeles, California Aerospace medicine, Human vibration	122
LINDSEY, Donald Department of Botany and Plant Pathology Colorado State University Fort Collins, Colorado	
LINDSLEY, D. B. University of California Los Angeles, California Behavioral biology, CNS, Bioengineering	
LINDSTROM, Robert W. Ionics, Inc. Cambridge, Massachusetts Urine, Closed ecology	900 1103

LINKOUS, R. E.
Bioastronautics Branch
Biophysics Division
Air Force Special Weapons Center
Air Force Systems Command
Kirtland Air Force Base
New Mexico
Radiation, Biotelemetry

LIS, S. J.
US
Aerodynamic deceleration, Bioengineering

LISIEWICZ, J.
Third Medical Clinic
Blood Coagulation Laboratory
Krakow, Poland
Blood, Physiology

LIVANOV, Mikhail Nikolaievich
Institute of Biophysics
Academy of Science
USSR
Neurology, Radiation

LIVINGSTON, R. B.
Laboratories of Neurobiology - NIH
Committee on Space Research - COSPAR & NAS
Washington, D. C.
Space research

LIVSHITS, N. N.
Academy of Sciences
Institute of Biophysics
USSR
Radiation, Senses, Neurology, Space flight, CNS

LOBASHKOV, S. I.
USSR
Physiology, Acceleration, Human, Cosmonauts, Training

LOEB, Michel
U. S. Army Medical Research Laboratory
Fort Knox, Kentucky
Ear, Environment, Senses, Physiology

LOFTUS, Joseph P.
Aerospace Medical Division
Wright Patterson AFB
Ohio
Motion sickness

LOGACHEV, Yu. L.
USSR
Radiation, Satellite, Earth

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LOKATOS, George	84
Aerospace Medical Laboratory	
Wright Air Development Division	
Wright Patterson AFB	
Ohio	
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Services Electronics Research Laboratory	
Baldock, Great Britian	
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Inspectorate of Aeronautical Health	1136
Rome, Italy	
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LONDON, Sheldon A.	596
Wright Patterson AFB	
Ohio	
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LONGLEY, M. Y.	1037
Wright Patterson AFB	
Biomedical Laboratory	
Ohio	
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LOVELACE, W. Randolph II	361
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Education and Research	
Albuquerque, New Mexico	
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LOWE, C.	
State University of New York	
Buffalo, New York	
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LOWRY, Ronney H.	
Boeing Aircraft Corporation	
Seattle, Washington	
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Institute of Cytology	1337
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Research and Development Department	
General Dynamics Corporation	
Groton, Connecticut	
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LUFT, U. C.	779
Arctic Aeromedical Laboratory	
Fort Wainwright, Alaska	
Heart, Heat regulation, Gas exchange	
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Institute of Biophysics	1301
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USSR	
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LUNDGREN, C.	1208
University of Lund	
Institute of Physiology	
Laboratory of Aviation Medicine	
Lund Sweden	
Decompression	
LUNDGREN, D. A.	1508
General Mills, Inc.	
Minneapolis, Minnesota	
Mars, Space exploration	
LUNDIN, G.	1208
University of Lund	
Institute of Physiology	
Laboratory of Aviation Medicine	
Lund, Sweden	
Decompression	
LURE, G. E.	
USSR	
Oxygen effect, Radiation	
LURIA, Salvador E.	
Department of Microbiology	
MIT	
Cambridge, Massachusetts	
Space biology	
LUR'YE, G. Ye.	
Central Institute of Health Resorts and Physical Therapy	
USSR Ministry of Health	
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Moscow, USSR	
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Brooks AFB	
Texas	
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LYLE, J. M.	521
U.S. Naval Air Development Center	
Johnsville, Pennsylvania	
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Arctic Aeromedical Laboratory	888
Fort Wainwright, Alaska	
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LYMAN, John	299
University of California	
Los Angeles, California	
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LYON, C.	1343
Dartmouth College	
Hanover, New Hampshire	
Environmental biology, Plants, Gravity	

MACK, P.
Texas Woman's University
Denton, Texas
Environmental biology, Skeleton, Physiology

MACKAY, R. Stuart
University of California
Berkeley, California
Telemetry, Physiology, Radiation

MACKLIN, Martin
Thompson Ramo Wooldridge, Inc.
Cleveland, Ohio
Environment, Space program

MADDOCK, Gene E. 354
Indiana University School of Medicine
Physiology, Blood, Heart, Suit

MAGID, E. B.
US
Vibration

MAGOUN, H. W.
University of California
Department of Anatomy
Berkeley 4, California
Central nervous system, Biotelemetry, Physiology, Humans,
Space flight

MAHER, P. J.
US
Animal studies, Subgravity

MAIENSCHEIN, F. C. 1376
Oak Ridge National Laboratory
Oak Ridge, Tennessee
Space program

MAIER, John C. 793
Rochester University
Rochester, New York
Pathology, Physiology, Radiation, Dogs

MAISKII, I. N. 197
USSR
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MAKSIMOV, D. G.
USSR
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MALKIN, V. B. 208
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- MALLON, L.
Human, Mammals, Gravity, Space flight
- MAMMEN, Robert E. 1101
Naval Air Material Center
Philadelphia, Pennsylvania
Human, Space environment, Gas exchange, Acceleration
- MANAGAN, R. F.
US
Impact
- MANCINELLI, D. A.
Safety and Survival Equipment Research and Development Division
Department of the Navy
Naval Air Material Center
Air Crew Equipment Laboratory
Philadelphia, Pennsylvania
Life support system, Capsule, Gaseous environment
- MANCINI, Roberto Eusbio
Buenos Aires University
Institute de Anatomia General y Embriologia
Argentina
Blood, Protein, Circulatory system
- MANGELSDORF, J.
Human, Ecology, Space
- MANSUROV, A. R..
Institute of Normal and Pathological Physiology
USSR
Decompression
- MAQSOOD, M. 390
University of California
Berkeley, California
Environment, Radiation, Space hazards
- MARCUS, Rudolph J. 285
USAF Wright Air Development Division
Wright Patterson AFB
Ohio
Closed ecological system, Plant, Chlorophyll
- MARCUS, S. 1004
Arctic Aeromedical Laboratory 1436
Fort Wainwright, Alaska
Environment, Mouse, Virus
- MARETT, William C.
USAF, Office of the Surgeon General
Washington, D. C.
Space program, Bioastronautics

MARGARIA, Rodolfo Instituto de Fisiologia Umana Universita de Milano Milano, Italy Bioastronautics, Weightlessness, Perception, Acceleration, Zero-gravity, Ear	798 1134 1459 1445
MARINER, Ruth National Aeronautics and Space Administration Ames Research Center Moffett Field, California Nucleic acid, Radiation, Gaseous environment	1445
MARKOLOV, V. V. USSR Radiation, Tissue, Biotelemetry	1395
MARKO, Adolf R. Aerospace Medical Division Aerospace Medical Research Laboratories Wright Patterson AFB Ohio Bioengineering, Physiology	1011
MAROTTA, S. F. School of Aerospace Medicine Brooks AFB Texas Tissue, Gaseous environment, Rats, Dogs, Oxygen	1348 1464
MARR, A. G. National Academy of Sciences Committee on Exobiology Space biology	
MARSHAK, M. Ye. USSR Respiration, Regulation, Hygiene, Brain, Human	565 566 587
MARSHALL, Hiram W. Mayo Clinic and Mayo Foundation Rochester, Minnesota Acceleration, Physiology, Heart, Oxygen, Respiration	117 1470
MARSHALL, John H. Argonne National Laboratory Illinois Metabolism, Bone	1112
MARTELL, Charles J. Spacelabs, Inc. Van Nuys, California Biosatellite, Bioengineering	1012

MARTINA, E. F.
US
Radiation, Space exploration

MARTIN, E. Dale
USAF, Aero Research Engineer
Ames Research Center - NASA
Moffett Field, California
Balloon, Impact

MASLENNIKOVA, V. A.
Institute of Industrial Hygiene and Occupational Diseases
Academy of Medical Sciences
USSR
Space flight, Enzyme, Blood

MASON, J. L. 791
AiResearch Manufacturing Company
Los Angeles, California
Life support systems, Aerospace medical problems, Space flight,
Space program

MASSIMINO, M. J. 1373
Federal Aviation Agency
Atlantic City, New Jersey
Bioengineering, Environment

MATHESON, W. E.
US
Space program

MATOV, V. V. 653
USSR
Bioengineering, Metabolism

MATTHERN, Robert O.
Chemical and Microbiology Branch
Food Division
Armed Forces Food and Container Institute
Chicago, Illinois
Nutrition, Algae

MATTONI, Rudolf H. 86
Space flight, Space capsules, Sanitary engineering

MATVEYLEV, V. V.
USSR
Radiation, Spaceship

MAYER, A. M.
Hebrew University
Israel
Photosynthesis, Plants, Algae, Culture

MAYO, Alfred M.
Chance Vought Aircraft Company
Dallas, Texas
Space cabin, Space environment, Bioengineering

MAYSKIY, I. I.
Institute of Experimental Biology
USSR
Microbiology, Space flight

MAYSKIY, I. N.
USSR
Spaceship, Microorganisms, Cells

1295

MAZIA, Daniel
National Academy of Sciences
Committee on Exobiology
Space biology

MAZZA, G.
University of Padua
Institute of the Ear-Nose-and-Throat Clinic
Padua, Italy
Ear, Physiology

1082

MAZZELLA, G.
Inspectorate of Aeronautical Health
Rome, Italy
Blood, Gaseous exchange, Decompression

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McCALLY, Michael
Aerospace Medical Division
Aerospace Medical Research Laboratories
Wright Patterson AFB
Ohio
Physiology, Bioengineering, Urine, Heart, Circulatory system,
Weightlessness, Human

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1011

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McCARTHY, B. J.
Carnegie Institution of Washington, D. C.
Nucleic acid, Metabolism

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McCLOSKEY, Keith
Martin Company
Baltimore, Maryland
Bibliography, Vibration

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McCLURE, C. M.
Aero Medical Field Laboratory
Holloman, New Mexico
Pilot, Balloon, Psychology, Manhigh III

McDANIEL, R. H.
Algae, Food, Animal studies

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McDONALD, W. S.
US
Payloads

McDONNEL, Gerald
Department of Radiology
University of California
Los Angeles, California
Space biology

McGUIRE, Terence F.
Mayo Clinic and Mayo Foundation
Rochester, Minnesota
Acceleration, Physiology, Heart

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McINTYRE, David
Space Sciences Laboratory
University of California
Berkeley, California
Biotelemetry, Mammals, Physiology, Space flight

McKENZIE, Richard E.
School of Aviation Medicine
Neuropsychiatry Branch
Brooks AFB
Texas
Capsule, Psychobiology, Physiology, Human, Gas pressure

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1204

McKINNEY, Ramon
Chance Vought Corporation
Astronautics Division
Dallas, Texas
Environment, Space capsule, Cell, Physiology, Behavior,
G-tolerance, Senses, Vision, Space environment, Ameba,
Zero-gravity

1178
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MCLEOD, G. C.
Brooks Hospital, Inc.
Brookline, Massachusetts
Plants, Pigments, Photosynthesis, Physiology

McNEE, Richard C.
USAF, Aerospace Medical Division
Brooks AFB
Texas
Radiation, G-tolerance

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McNINCH, J. H.
Monkey, Space flight

McMULLEN, J.
Motion sickness

MEEHAN, John P.	346
University of Southern California	
Los Angeles, California	
Aerospace medicine, Acceleration, Physiology	
 MEEK, Joseph C.	1
U.S. Naval School of Aviation Medicine	3
Pensacola, Florida	4
Canal sickness, Aerospace medicine, Monkeys, Animal studies, Organisms, Mammal	
 MEIER, F. C.	
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 MEINERI, G.	1081
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Aeronautica e Spaziale	
Rome, Italy	
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Colorado State University	
Fort Collins, Colorado	
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Oklahoma City, Oklahoma	
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MERRIWEATHER, E.

US

Toxicity

MERRYMAN, H.

Naval Medical Research Institute

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MESHER, P. J.

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Aiken, South Carolina

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METCALF, T. G.

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Arctic Aeromedical Laboratory

Fort Wainwright, Alaska

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METZ,

Florida State University

Space Bioscience Institute

Tallahassee, Florida

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Aerospace Medical Division

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Wright Patterson AFB

Ohio

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Chicago University

USAF Radiation Laboratory

Chicago, Illinois

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MEYSEL', M. N.

USSR

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Institute of Biophysics

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MILFORD, S. N. St. Johns University New York City, New York Space, Radiation	
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MITCHELL, Donald F. The Northrop Corporation 977 Wilshire Boulevard Beverly Hills, California Radiation, Chromosome, Damage and lethality, Pocket mice,	1491 1506
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U.S. Air Force Aerospace Medical Center	
Brooks AFB	
Texas	
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Pasadena Foundation for Medicine & Research	
Pasadena, California	
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Yale University	
New Haven, Connecticut	
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Academy of Medical Sciences	
Moscow, USSR	
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 MORRELL, Roger M.	
Montreal Neurological Institute	
Montreal, Quebec, Canada	
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 MORRISON, P.	
University of Alaska	
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NASA - Houston, Texas	
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USSR	
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MOSKALEV, Yu. I.

USSR

Radiation,

MOSS, Arthur J.

Rochester University

Rochester, New York

Dog, Radiation, Heart

1061

MOTT-SMITH, L. M.

Genetics, Radiation

MOWBRAY, G. H.

Johns Hopkins University

Applied Physics Laboratory

Silver Spring, Maryland

Eye, Environment

1099

MOXNES, N. H.

Radiation, Organism

MOYER, James E.

School of Aerospace Medicine

405

1204

Brooks AFB

Texas

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MOZHAEVA, V. S.

1142

USSR

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MOZHAROVA, Ye. N.

Central Institute of Medical Radiology

USSR Ministry of Health

USSR

Pharmacology, Oxygen effect

MOZINGO, H.

University of Nevada

Environmental biology, Low pressure, Plants

MUELLER, Donald D.

120

Wright Patterson AFB

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Dayton, Ohio

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MUELLER, Gustave

107

Wright Patterson AFB

334

Dayton, Ohio

353

Aerospace medicine, Acceleration, Heart

MULLER, Hermann J.

Department of Zoology

Indiana University

Bloomington, Indiana

Exobiology, Genetics, Radiation

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MUNCH, Guido Jet Propulsion Laboratory California Institute of Technology Pasadena, California Mars, Environment	1507
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MURIN, G. F. Academy of Medical Sciences Moscow, USSR Radiation, Genetics	1473
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MUSACCHIA, X. J. Department of Biology St. Louis University St. Louis 4, Missouri Physiology, Weightlessness, Radiation, Environmental biology, Hibernation	606
MUXWORTHY, J. Lovelace Foundation for Medical Education and Research Albuquerque, New Mexico Gas exchange, Bioengineering, Human	
MYASNIKOV, V. I. USSR Manned space flight	
MYERS, Jack E. Armed Forces-NRC Committee on Bio-Astronautics Washington, D. C. Closed ecological system, Algae, Culture, Photosynthesis, Gas exchanger	268 284 438 879
MYERS, L. S. California University School of Medicine Los Angeles, California Pharmacology, Radiation	1429

NACHEMSON, Alf University of Gothenburg Orthopaedic Department Gothenburg, Sweden Space flight, Pilot, Manned, Aerospace medicine	812
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NAGY, B. University of California San Diego, California Exobiology, Biochemistry, Meteorites	
NAJAC, Harold W. Wright Patterson AFB Biophysics Laboratory Ohio Heat energy, Eyes	1036
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NAKHIL'NITSKAYA, Z. N. USSR Radiation, CNS	
NAUGLE, John E. Goddard Space Flight Center NASA Onion, Radiation, Space environment	
NAUMENKO, A. I. 1st Leningrad Medical Institute USSR Biotelemetry, Brain, Blood, Space flight, Physiology, Circulatory system	1426
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NEFED'YEVA, N. P. Department of Immunology Institute of Experimental Biology USSR Microbiology, Space flight	
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NELSON, D. R. Oak Ridge National Laboratory Oak Ridge, Tennessee Bacteria, Protein	1105

NELSON, John G.
Human Factors Branch
Aviation Medical Acceleration Laboratory
U.S. Naval Air Development Center
Johnsville, Pennsylvania
Acceleration, Bioinstrumentation, Psychology

NELSON, N.
Institute of Industrial Medicine
New York University
New York, New York
COSPAR, Working group on biology

NESMEGONOV, A. N.

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USSR
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NESTEROV, V. Ye.

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USSR

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Spaceships, Radiation, Space flight, Earth

NEUBERGER, Thomas P.

1451

ACF Industries, Inc.
ACF Electronics Division
Optical Section
Riverdale, Maryland
Vision, Training

NEUMAN, William F.

881

University of Rochester Medical Center
Department of Radiation Biology
Rochester, New York
Metabolism, Weightlessness, Physiology

NEVILLE, J. Ryan

1444

Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB
Texas
Oxygen, Biotelemetry

NEVZGODINA, L. V.

1142

USSR
Plant, Growth, Genetics, Space flight

NEWBY, Hayes A.

1232

Brooks AFB
School of Aerospace Medicine
Texas
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NEWELL, Homer E., Jr.

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NASA

Washington, D. C.
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New York, New York	
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U. S. Naval School of Aviation Medicine	
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Ohio	
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Mayo Clinic and Mayo Foundation	
Section of Physiology	
Rochester, Minnesota	
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NOLE, D. A.
Wright Patterson AFB
Biomedical Laboratory
Ohio
Toxicity

1037

NORDBY, Frederick J.
General Dynamics Corporation
Astronautics Division
San Diego, California
Moon, Environment, Gravitation

1240

NORTHEY, W. T.
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Environment, Antibody, Adaptation

NOTTAGE, H. B.
ASME
16597 Bosque Dr.
Encino, California
Bioastronautics, Liaison

NOVICK, Aaron
National Academy of Sciences
Committee on Exobiology
Space biology

NOVIKOV, S. N.
USSR
Histology, Space flight

NOVIKOVA, I. S.
USSR
Microbiology, Space flight

NOVIKOVA, M. N.
USSR
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NOVOSAD, R. S.
Martin Marietta Corporation
Martin Denver Company
Denver, Colorado
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NOWELL, P. C.
Pennsylvania University
Genetics, Mice, Radiation

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NOYES, R. C.
Atomics International
Canoga Park, California
Bioengineering

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NOZDRACHEV, A. D.
USSR
Closed ecological system, Physiology, Gas exchange, Bioengineering

NUZHDIN, N. I.
Institute of Genetics
Academy of Sciences
USSR
Genetics, Radiation

OAKBERG, E. F.
Oak Ridge National Laboratory
Oak Ridge, Tennessee
Biosatellite

O'BREIN, Regina C.
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
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OFFNER, Kenneth M.
USAF, Systems Command
Aeronautical Systems Division 6570th
Aerospace Medical Research Laboratories
Wright Patterson AFB, Ohio
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USSR
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OIOES, Wesley O.
Technological Institute
Northwestern University
Evanston, Illinois
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OKHNYANSKAYA, L. G.
USSR
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OKUNEV, R. A.
USSR
Aerospace medicine, Motion sickness

OLDFIELD, D. G.
Chicago University
USAF, Radiation Laboratory
Illinois
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OLDS, J.
University of Michigan
Ann Arbor, Michigan
Behavioral biology, CNS, Conditioning

OLIVE, J.
American Institute of Biological Sciences
Washington, D. C.
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Behavioral Science Laboratory	
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University of Houston	
Houston, Texas	
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OSRETKAR, Anthony	
Department of Botany	
University of Maryland	
College Park, Maryland	
Algae, Yeast, Gravity, Radiation	

OSTAPOVICH, L. F.
Pamir Botanical Garden
USSR
Space flight, Photochemistry, Photosynthesis, Plants, Radiation

OSWALD, W. J. 441
University of California
Berkeley, California
Algae, Closed ecological system, Microorganisms, Waste,
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OTIS, A. B. 1019
Brooks AFB
School of Aerospace medicine
Texas
Rats, Enzyme

OVERALL, John E. 1493
Texas University
Austin, Texas
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PARDI, L. Turin University Italy Animal studies, Environment	
PARFENOV, G. P. Institute of Biophysics USSR Plant, Yeast, Space flight, Animal studies, Insects, Genetics, Drosophila, Environment, Space capsule, Closed ecological system	657 1296
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PARIN, Vasilu Vasil'evich Academy of Medical Sciences Moscow Institute of Normal & Pathological Physiology Human, Space flight, Physiology, Radiation, Dogs, Environment, Space medicine, Gravity, Acceleration, Biotelemetry, Training, Selection, Weightlessness, Cosmonauts	89, 199 200, 201, 292, 203, 205, 206, 303, 314, 316, 399, 562, 617, 1147, 1371, 1378
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PARKER, F. A. General Electric Company Missila and Space Division Valley Forge Space Technology Center Philadelphia, Pennsylvania Space environment, Closed ecology	1096
PARKER, James W. U.S. Naval Submarine Base New London, Connecticut Bibliography, Sensory deprivation, Behavior	257
PASTERNACK, Bernard New York University Medical Center New York, New York Eye	1027
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PATTISHALL, Evan G. 116
Development Command Headquarters
Division of Education Research
University of Virginia
Hampton, Virginia
Bibliography, Human, Space environment

PAVLIDIS, T. 1197
University of California
Department of Electrical Engineering & Electronics Research
Laboratory
Berkeley, California
Bioengineering

PAVLOV, G. I.
Academy of Medical Sciences,
Moscow Institute of Normal & Pathological Physiology
Moscow, USSR
Space flight, CNS

PAVLOV, V. N. 569
USSR
Senses, Neurology, Sleep

PAYNE, Charles F.
Department of the Navy
Naval Air Material Center
Air Crew Equipment Laboratory
Philadelphia, Pennsylvania
Life support system, Capsule, Gaseous environment

PEARSONS, Karl S. 808
Bolt, Beranek, and Newman, Inc.
Cambridge, Massachusetts
Sense, Ear

PEDIGO, G. P.
US
Space flight, Monkey

PEKHOV, A. P. 235
Department of Immunology 1295
Institute of Experimental Biology
USSR
Spaceship, Microorganisms, Cells, Microbiology, Space flight

PENNINGTON, Jack E. 1125
National Aeronautics and Space Administration
Manned Spacecraft Center
Houston, Texas
Space flight, Vision, Manned

PETERS, Julius	1235
Life Sciences	1468
Republic Aviation Corporation	
Farmingdale, Long Island, New York	
Senses, Neuurology, Psychology, Space flight, Space crews,	
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PETERSON, R. E.	1508
General Mills, Inc.	
Electronics Division	
Minneapolis, Minnesota	
Mars, Space exploration	
PETROV, A. V.	
USSR	
Animal studies, Physiology, Space flight	
PETROV, G. G.	
USSR	
Tissue, Radiation	
PETROV, R. V.	
USSR	
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PETROVA, O. N.	
Institute of Genetics	
Academy of Sciences	
USSR	
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PETRUN', I. M.	564
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PETTERSSON, Hjalmar	1203
University of Gothenburg	
Department of Hygiene	
Gothenburg, Sweden	
Mammal, Circulatory system, Decompression, Bioengineering	

PHARES, L.
US
Spectral energy threshold

PHELPS, L. J. 1004
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Environment, Mouse, Virus 1436

PHILLIPS, Charles R. 237
Fort Detrick
U. S. Army
U. S. Army Chemical Corps Biological Laboratory
Fort Detrick, Maryland
Plant, Sterilization, Microorganisms 1029

PHILLIPS, J. M. 771
Space Ecology Branch
School of Aviation Medicine
Brooks AFB
Texas
Genetics, Rat, Space cabin

PHILLIPS, J. N. 276
Panoramic Research Incorporated
Palo Alto, California
Exobiology, Closed ecological system, Space flight

PHILLIPS, N. E.
US
Extraterrestrial atmosphere, Human, Physiology

PHILLIPS, William H.
Langley Research Center
NASA
Satellite attitude control, Performance

PHIPPS, C. G. 406
U. S. Naval Missile Center
Point Mugu, California
Bioengineering, Space flight

PHOEBUS, C. P.
Bureau of Medicine and Surgery
Department of the Navy
Washington, D. C.
Bioastronautics, Liaison

PICKERING, John E. 631
Aerospace Medical Center
Brooks AFB, Texas
Animal studies, Radiation, Diagnosis, Monkey

PICKREL, Evan Wilken 1113
Defense Department
Office of the Director of Defense Research Engineering
Washington, D. C.
Space program

PIERCE, B. F. 997
General Dynamics Corporation
Astronautics Division
San Diego, California
Human, Space capsule, Closed ecology

PIERCE, Dean 1012
Wright Patterson AFB
Ohio
Bioengineering

PIGG, Leroy D. 123
6570th Aerospace Medical Research Laboratory
Senses, Vision, Gravity

PILGRIM, A. J. 282
Bioastronautics Section
Boeing Company
Seattle, Washington
Algae, Closed ecological system, Plant, Environment, Life support

PINC, Bruce W. 281
Space/Defense Corporation 1206
Birmingham, Michigan
Environment, Closed ecological system, Respiration, Bioengineering,
Monkey, Gravity, Acceleration

PINKERTON, Mildred K. 1073
Aerospace Medical Division
Aerospace Medical Research Laboratories
Wright Patterson AFB, Ohio
Aerospace medicine, Toxicity

PIONTKOVSKY, I. A. 1151
USSR
Radiation, Neuurology, Animal studies, Embryo

PIPES, Wesley O. 439
Northwestern University
Evanston, Illinois
Chlorella, Wastes, Biologistics

PIPES, W. O. 1359
California University
School of Medicine
Los Angeles, California
Human, Waste, Environment

PIRIE, N. W. c/o Hafner Publishing Company New York 3, New York Life sciences, Space flight	232
PISARENKO, N. F. USSR Spaceships, Radiation, Space flight, Earth	630 1299
PITTENDRIGH, C. S. Princeton University Princeton, New Jersey Biosatellite, Physiology, Psychology, Behavioral biology, Metabolism, Animals, Circadian rhythms, Space environment	1476
PITTS, D. G. Biomedical Laboratory MRM, AMRL Dayton, Ohio Bioengineering	
PLZAK, V. Chicago University USAF Radiation Laboratory Illinois Mice, Radiation	1120
PIZZUTO, Joseph S. Pasadena Foundation for Medical Research Pasadena, California Bioengineering, Cell, Radiation	1228
PLATONOV, K. K. USSR Psychology, Space flight	
PLATT, Robert B. Emory University Atlanta, Georgia Ecology, Radiation	1084
PLETCHER, Kenneth E. Pathology, Human, Space flight	99
PLEVAKO, N. S. Roentgenological Division N. N. Burdenko Institute of Neurosurgery Academy of Medical Science Moscow, USSR Brain, Blood	

PLOMP, R.
Institute for Perception RVO-TNO
Soesterberg, Netherlands
Ear

1196

PODOPLELOV, I. I.
Institute of Experimental Biology
USSR
Histology, Space flight, Microbiology

POKROVSKY, A. V.
Institute of Experimental Aeromedicine
Moscow, USSR
Life support systems, Space flight, Space animals

POKROVSKY, G. I.
USSR
Space biology

POLETAYEV, M. I.
USSR
Closed ecological system, Physiology, Gas exchange,
Bioengineering

POLIKARPOVA, L. N.
USSR
Metabolism, Monkey, Radiation

POLIS, B. David
Naval Air Development Center
Aviation Medical Acceleration Laboratory
Johnsville, Pennsylvania
Radiation, Protein, Rat, Brain

1431

POLLACK, Irwin
Operational Applications Laboratory
Air Force Electronic Systems Division
Bedford, Massachusetts
Sense, Ear, Physiology

POLLARD, E. C.
Department of Biophysics
Pennsylvania State University
Philadelphia, Pennsylvania
Physical biology, Biophysics, Chemical synthesis

POLUBOYARINOVA, Z. I.
USSR
Dogs, Radiation, Metabolism, Physiology

POMERANTSEVA, M. D.
USSR
Radiation, Mouse, Tissue

POMERAT, Charles M. 1228
Pasadena Foundation for Medical Research
Pasadena, California
Bioengineering, Cell, Radiation, Physical biology

POMOMAREVA, V. L.
USSR
Radiation, Mouse, Rat

PONNAMPERUMA, Cyril 1445
NASA
Ames Research Center
Moffett Field, California
Nucleic acid, Radiation, Gaseous environment

POPMA, D. C. 1093
NASA, Langley Research Center
Hampton, Virginia
Life support

POPOV, V. I.
Academy of Sciences
Institute of Experimental Biology & Medicine of
Siberian Department
Moscow, USSR
Weightlessness, Space flight, Gravitation

PORTER, J. C.
US
Payloads

PORTER, Richard W.
Advanced Development
General Electric Company
New York, New York
Space biology

PORTNER, Dorothy M. 1029
Army Chemical Corps.
Fort Detrick, Maryland
Microorganisms, Bacteria

POTOR, G., Jr.
US
Bioengineering, Physiology

POTTER, Norman S.
Systems Analysis
Maxson Electronics Corporation
New York, New York
Space biology

POTTS, Pauline 1462
USAF, Aerospace Medical Division
Wilford Hall USAF Hospital
Department of Orthopedic Surgery
San Antonio, Texas
Physiology, Weightlessness, Muscle

POWE, W. E. 1460
Bell Aerospace Corporation
Bell Aerosystems Company
Buffalo, New York
Manned, Space vehicles

PRATT, Arnold W. 992
National Cancer Institute
Naval Medical Research Institute
Behtesda, Maryland
Heat regulation, Body temperature

PRESMAN, A. S.
Central Institute of Health Resorts & Physiotherapy
USSR
Microwaves, Biological

PRESTON, Richard J. 559
United Aircraft Corporation
East Hartford, Connecticut
Space environment, Human, Capabilities

PRESTON, William M.
Harvard University
Cambridge, Massachusetts
Radiation, Biologic systems

PREVITE, J. J. 1360
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Mouse, Toxicity, Environment

PRICE, J. F. 262
Space Technology Laboratories, Inc.
Los Angeles, California
Weightlessness, Bibliography, Space flight

PRICE, John B. 648
Astrobiological Branch
School of Aerospace Medicine
Brooks AFB, Texas
Biology, Space flight

PRICE, R. W.
General Electric Company
Biosatellite

PRICE, W. M. Arctic Aeromedical Laboratory Fort Wainwright, Alaska Pharmacology, Nervous system	1107 1115
PRIME, James R. Aerospace Medical Division Aerospace Medical Research Laboratories Wright Patterson AFB, Ohio Monkey, Behavior	1025
PRINCE, Alton E. USAF, Systems Command Aeronautical Systems Division Wright Patterson AFB Ohio Nutrition, Microbes, Food	1471
PRINCE, John E. School of Aerospace Medicine Brooks AFB, Texas Radiation, Cells, Spores, Space flight, Space medicine	220 381
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PROSSER, C. L. Department of Physiology University of Illinois Urbana, Illinois Space biology	
PRUETT, C. Douglas Aircraft Company, Inc. Missile and Space Systems Division Santa Monica, California Bioengineering	994
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QUATTRIN, N. 1000
Naples Hospital Center
Italy
Blood, Pathology

QUIGLEY, J. P.
Tennessee University
Memphis, Tennessee
Medicine, Physiology

QUINN, Frances A. 1153
Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB, Texas
Radiation, Blood, Mammal, Monkey

QUON, J. E. 1359
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
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RAKHMANOVA, T. B. Central Institute of Health Resorts & Physical Therapy USSR Ministry of Health USSR Oxygen effect, Pharmacology, Radiation	
RANDT, Clark T. NASA Washington, D. C. Life sciences, Aerospace medicine, Bioastronautics, Liaison	234
RANKIN, M. O. Hanford Atomic Products Operation Richland, Washington Bioengineering, Radiation	1430
RAPOPORT, I. A. USSR Radiation, Genetics, Humans	637 641 1318, 1319
RASMUSSEN, Warren A. U.S. Public Health Service Communicable Disease Center Toxicology Section Atlanta, Georgia Toxicology, Exobiology, Spacecraft sterilization	1015
RASSUETAYEV, V. V. USSR Physiology, Dogs, Motion sickness	
RATHERT, George A., Jr. 20021 Marribrook Drive Saratoga, California Pilot-control, Simulation	
RAUSHENBAKH, M. O. Institute of Industrial Hygiene & Occupational Diseases Academy of Medical Sciences USSR Space flight, Enzyme, Blood	
RAZGOVOROV, B. L. Academy of Medical Sciences Moscow, USSR Radiation, Genetics	1473

RAZORENOV, L. A.
USSR
Radiation, Satellite, Earth

RAZUMEYEV, A. N. 1308
USSR
Acceleration, CNS, Brain, Human

REDDEN, Robert J. 224
USAF Aeronautical Systems Division Technology
Environment, Suit, Urine

REDDY, Robert R. 777
Spacelabs, Inc.
Van Nuys, California
Space flight, Nutrition, Food
1100

REED, G. W.
Radiation, Pathology

REEVES, Elizabeth 517
U.S. Naval Air Development Center
Aviation Medical Acceleration Laboratory
Animal studies, Rat, Acceleration, G-tolerance
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REEVES, Johnie L. 1172
Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB, Texas
Toxicity, Environment

REHKEMPER, J. A. 430
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Space medicine, Algae, Animal study

REITZ, D.
Radiation, Manned, Space station, Space environment

RENTZ, E. W., Jr.
714 W. Olympic Boulevard
Los Angeles, California
Space biology

REPASS, Eleanor
Martin Marietta Corporation
Denver, Colorado
Weightlessness, Bibliography, Space medicine

REST, J. 275
American Machine and Foundry Company
Miles 48, Illinois
Closed ecological system, Respiration, Human

RETRUKHIN, V. G.

USSR

Space biology

REYNOLDS, Herbert H. 6
Aerospace Medical Division 126
6571st Aeromedical Research Laboratory 789
Holloman AFB 993
New Mexico 1025
Project Mercury, Chimpanzee, Behavior, Nutrition

REYNOLDS, J. B. 1264
North American Aviation, Inc.
Space and Information Systems Division
Life Science Department
Downey, California
Bioengineering, Zero-gravity, Environment

REYNOLDS, L. W. 811
General Electric Company
Missile and Space Division
Space Sciences Laboratory
Philadelphia, Pennsylvania
Space capsule

REYNOLDS, O. E.
Office of Bioscience Programs
NASA Headquarters
Space biology

RICHMOND, Donald R. 227
Lovelance Foundation Medicine Education & Research 490
Albuquerque, New Mexico 547
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RICKLES, W. H., Jr.
School of Aerospace Medicine
Department of Bioastronautics
USAF, Brooks AFB
Texas
Telemetry, Physiology, Human

RIGG, L. D. 106
Aerospace Medical Laboratory
Wright Patterson AFB
Ohio
Bioengineering, Senses, Behavior

RINFRET, A. P. 1143
Linde Company
Bioresearch Department
Tonawanda, New York
Life science

RIOCH, David McKinzie	
Walter Reed Army Institute of Research	
Washington, D. C.	
Space biology	
 RIOPELLE, A. J.	1
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Aerospace Medical Center	
Brooks AFB	
Texas	
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 ROBERTS, F. B.	
Department of Anatomy	
Oxford University	
Oxford, England	
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Carnegie Institution of Washington, D. C.	
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Aerospace Medical Division	
Aerospace Medical Research Laboratories	
Wright Patterson AFB	
Ohio	
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 ROBINSON, Gordon H.	1127
Michigan University	
Institute of Science and Technology	
Ann Arbor, Michigan	
Humans, Senses	
 ROBINSON, J. S.	
Princeton University	
Princeton, New Jersey	
Senses, Behavior	
 ROBINSON, L.	
US	
Toxicity	

ROBINSON, S.	
Indiana University Foundation	
Environmental biology, Respiration, Performance	
ROBY, H.	1037
Biomedical Laboratory	
Wright Patterson AFB	
Ohio	
Toxicity	
ROCKWOOD, Charles A.	1462
USAF, Aerospace Medical Division	
Wolford Hall USAF Hospital	
Department of Orthopedic Surgery	
San Antonio, Texas	
Physiology, Weightlessness, Muscle	
ROGACHEVA, L. S.	
USSR	
Blood, Bone, Radiation, Dogs	
ROGERS, L. A.	
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ROGERS, T. A.	1330
Arctic Aeromedical Laboratory	
Fort Wainwright, Alaska	
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ROMANCHIKOVA, M. L.	
Institute of Physics	
USSR	
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ROMANO, S.
US
Pilot-control

ROMERO, Petra A. 1485
Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB
Texas
Genetics, Humans, Blood, Animal studies

RONCHI, L. 1095
National Institute of Optics
Arcetri, Florence, Italy
Vision, Space flight

ROPPEL, Richard M. 1220
Biophysics Laboratory
Wright Patterson AFB
Ohio
Mammals, Brain, Radiation

ROSEN, Robert 1387
University of Chicago
Chicago, Illinois
Life sciences, Bioengineering

ROSENBAUM, D. A.
Capsule, Respiration, Closed ecological system

ROSENBLITH, W.
M. I. T.
Physical biology, Computer technology

ROSENTHAL, N. 890
Schwarz Bio-Research Incorporated
New York
Physical biology, Diet development, Diets for space travel

ROSIN, Ya. A.
USSR
Acceleration, CNS

ROSS, Joseph C. 354
Indiana University School of Medicine
Physiology, Blood, Heart

ROSS, Malcolm D. 280
Office of Naval Research
Washington, D. C.
Environment, Closed ecological system

ROSS, Makr 1232
School of Aerospace Medicine
Brooks AFB, Texas
Noise, Communication, Ear, Speech

ROSS, Martin A.
Veterinary Pathology Division
Armed Forces Institute of Pathology
Washington 25, D. C.
Brain, Mice, Monkey, Radiation

ROSS, R. E.
Electric Boat Division
General Dynamics Corporation
Groton, Connecticut
Ecology, Space station

ROSSANIGO, Franco
Italian Air Force
First Department of the Center of Studies in
Researches of Aviation and Medicine
Rome, Italy
Behavior, Gravity, Nervous system

ROSSI, Bruno B.
Mass. Inst. of Technology
Cambridge, Massachusetts
Space biology

ROTH, Emanuel M.
NASA
Washington, D. C.
Space cabin, Oxygen, Toxicity

ROTH, Norman G.
Whirlpool Corporation
St. Joseph, Michigan
Food, Space capsule

ROTONDO, G.
Space flight, Aerospace medicine

ROUNDY, Robert W.
Aerospace Medical Laboratory
Wright Air Development Division
Wright Patterson AFB, Ohio
Closed ecological system, Space environment, Space medicine

RUBENSTEIN, L.
Canada
Sense, Human, Psychology

RUDEK, Fred P.
General Electric Company
Valley Forge Space Technology Center
King of Prussia, Pa.
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RUDNYY, N. M.
Institute of Evolutionary Physiology
USSR
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RUFF, George E.
University of Pennsylvania
School of Medicine
Psychiatry Department
Philadelphia, Pennsylvania
Senses, Psychology, Human, Space crew

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RUFF, S.
Deutsche Versuchsanstalt fur Luft-und Raumfahrt
Inst. fur Flugmedizin
Bad Godesberg West Germany
Decompression, Space exploration

RUMYANTSEVA, V. M.
USSR
Yeast, Temperature control, Exobiology

RUSIN, V. Ya.
USSR
Physical training, Adaptation, Rats, Mice

RUSANOV, A. M.
Central Institute of Medical Radiology
USSR Ministry of Health
USSR
Pharmacology, Oxygen effect

RUSSEL, L. B.
Radiation, Mammals, Embryo, Growth

RUSSELL, I. J.
Biophysics Division
Department of the Air Force
Air Force Special Weapons Center
Air Force Systems Command
Kirtland Air Force Base, New Mexico
Radiation, Biotelemetry

RUST, John H.
Chicago University
USAF Radiation Laboratory
Illinois
Mice, Genetics

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RYAN, J. J.
US
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RYBAKOV, N. I. 1295
USSR
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Histology

RYZHOV, N. I.
USSR
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SAFIULINA, S. N. Central Institute of Health Research & Physiotherapy Moscow, USSR Microwaves, Circulatory system, Humans, Heart	1437
SAGAN, C. University of California Berkeley, California Environmental biology, Exobiology, Growth, Biochemistry, Microorganisms	
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SAKSONOV, P. P. Moscow, USSR Space flight, Life sciences, Medicine, Physiology, Conditions, Radiation, Cosmonauts, Genetics	619, 643, 1219, 1469, 1472, 1473
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SAMOYLOVA, K. A. USSR Radiation, Animal	
SANDBERG, A. Chicago University USAF Radiation Laboratory Illinois Mice, Radiation	1120
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SANDER, Eugene G. USAF, Systems Command Aeronautical Systems Division 6570th Aerospace Medical Research Laboratories Wright Patterson AFB Ohio Nutrition, Microbes, Food	1471
SANDERS, S. School of Aerospace Medicine Brooks AFB Texas Rats, Enzyme	1019
SANTA-Maria, Louis J. Naval Air Material Center Air Crew Equipment Laboratory Philadelphia, Pennsylvania Metabolic wastes, Environment, Physiology	235
SANTSCHI, W. R. Wright Patterson AFB Behavioral Science Laboratory Ohio Human, Gravitation	995
SAVENKO, I. A. USSR Spaceship, Radiation, Space flight, Earth	639 1299 1469
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SAYLOR, W. P.	385
American Machine and Foundry Company	
Alexandria, Virginia	
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Moscow, USSR	
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SCANO, Aristide	1136
Centro di Studi e Richerche di Medicina	
Aeronautica e Spaziale	
Rome Italy	
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U. S. Naval Medical Research Laboratory	
New London, Connecticut	
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SCHAIRER, L. A.	
Brookhaven National Laboratory	
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New Mexico Highlands University	
Las Vegas, New Mexico	
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SCHELLER, E. F.	
Munich West Germany	
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Bendix Corporation	
Pioneer-Central Division	
Davenport, Iowa	
Closed ecological system, Bioengineering, Space	
SCHER, S.	
University of California	
Berkeley, California	
Environmental biology, Growth, Biochemistry, Microorganisms,	
Exobiology	

SCHILLING, Gerhard F. 1280
Rand Corporation
Santa Monica, California
Mars, Space environment, Space exploration

SCHINDLER, Charles A. 371
Armed Forces Institute of Pathology
Washington, D. C.
Exobiology, Extraterrestrial life

SCHMIDT, R. S. 1484
School of Aerospace Medicine
Brooks AFB
Texas
Behavior, Ear, Cats, Neurology

SCHMITT,
M. I. T.
Cambridge, Massachusetts
Central nervous system, Communication

SCHOCK, G.
Animal studies, Subgravity, Weightlessness

SCHUKNECHT, H. F.
U. S. Naval School of Aviation Medicine
Pensacola, Florida
Acceleration, Pilots, Aerospace medicine

SCHULTZ, Stanley G. 1494
Aerospace Medical Center
School of Aerospace Medicine
Brooks AFB, Texas
Rabbit, Physiology

SEM-Jacobsen, C. W.. 1262
EEG Laboratory
Oslo, Norway
Brain, Human, Zero-gravity, Space flight

SCHMIDT, Herbert 1027
New York University
New York, New York
Eye

SCHMIDT, J. P. 1346
Arctic Aeromedical Laboratory
Fort Wainwright, Alaska
Animal studies, Virus

SCHMITT, F. O.
M. I. T.
Cambridge, Massachusetts
CNS, Memory, Behavioral biology

SCHNELL, Jay H. 1083
Emory University
Radiation Ecology Studies
Atlanta, Georgia
Radiation, Mammals

SCHOETTLIN, C. E. 333
USAF Aeronautical Systems Division
Senses, Neurology, Toxicity

SCHREINER, Bernard F. 1061
Rochester University
Rochester, New York
Dog, Radiation, Heart

SCHRIEVER, Bernard A.
U. S. Air Force
Air Research and Development Command
Andrews Air Force Base, Maryland
Space

SCHRIER, A. M.
Radiation, Primates

SCHUBERT, Gustav
Physiological Institute
University of Vienna
Vienna, Austria
Bioastronautics

SCHUBERT, J. E.
Bioastronautics Section
Boeing Company
Seattle, Washington
Algae, Closed ecological system, Plant

SCHWARTZ, Emanuel E. 1497
School of Aerospace Medicine
Brooks AFB, Texas
Mice, Pharmacology, Physiology

SCHWICHTENBERG, A. H. 357
Lovelace Foundation for Medical Education and Research 629
Albuquerque, New Mexico
Astronaut selection, Space flight, Radiation

SEAL, Herbert R.
US
Biotelemetry, Human

SEALY, W. C. 1003
Arctic Aeromedical Laboratory 1009
Fort Wainwright, Alaska
Rat, Heat regulation, Survival, Circulatory system

SEDUNOV, B. I. 1461
USSR
Tissue, Organism

SEELEY, Sam F.
Division of Medical Science
National Research Council, NAS
Washington, D. C.
Bioastronautics, Information exchange

SEGAL, L. 823
Humboldt University
Inst. fur Allegemeine Biologie
Berlin, East Germany
Protein, Blood

SEKEY, Andrew
Imperial College
Department of Electrical Engineering
London, England
Sense, Ear, Physiology

SELLS, S. B. 97
Randolph Air Force Base
Texas
Space flight, Aerospace medicine, Human

SEMENENKO, V. Ye. 660
Institute of Plant Physiology 661
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SEN, Tapas, K. 1099
Johns Hopkins University
Baltimore, Maryland
Eye, Environment

SENDERS, John W.
National Academy of Sciences
Committee on Man in Space
Space biology

SENDRISHCHEVA, Z. A.
Sochi Branch of All-Union Scientific Society
of Laboratory Physicians
Radiation, Blood

SENO, S.
Okayama University
School of Medicine
Japan
Nucleic acids, Embryo, Growth, Blood

- SENTER, R. J. 886
Biomedical Laboratory
Wright Patterson AFB
Ohio
Food, Nutrition, Closed ecology
- SERGEEVA, N. A. 1140
USSR
Radiation, Space flight, Space environment
- SERGEYEV, A. A.
Acceleration, Pilot, Space flight
- SERGEYEV, Konstantin I.
USSR
Space biology
- SERGEYEV, N. P. 598
USSR
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- SEROV, A. D.
USSR
Animal studies, Space flight
- SERRANO, Jose, Jr.
US
Sense, Psychology, Human
- SERYAPIN, A. D.
USSR
Manned space flight, Life support system, Closed ecological systems, Bioengineering, Space capsule, Environment
- SEVAN'KAYEV, A. V.
USSR
Radiation, Ear
- SEVERIN, Sanford L. 1477
Aerospace Medical Division
School of Aerospace Medicine
Brooks AFB
Texas
Vision, Physiology 1478
- SHABADASH, A. L. 1438
Physiochemistry, CNS, Frog
- SHAFFER, Yu. G.
USSR
Radiation

SHAKHBAZIAN, G. Kh.
Kiev Institute Labor Hygiene & Occupational Diseases
USSR
Physiology, Environment

SHAKHOV, A. A. 597
Institute of Plant Physiology 1316
USSR
Space flight, Photochemistry, Photosynthesis, Plants,
Radiation

SHIMINA, Z. B.
USSR
Genetics, Space flight, Plants

SHAPIRO, Bernard 1497
School of Aerospace Medicine
Brooks AFB
Texas
Mice, Pharmacology, Physiology

SHAPIRO, I. M. 1200
Severtsov Institute of Animal Morphology 1392
Moscow, USSR
Radiation, Mammal, Bone, Genetics

SHAPIRO, N. I.
Institute of Genetics
Academy of Sciences
USSR
Genetics, Radiation

SHAPLEY, H.
Extraterrestrial life

SHAPOSHNIKOVA, M. G.
Institute of Biochemistry
Academy of Sciences
USSR
Algae, Chlorella

SHAPOSHNIKOV, V. N. 1054
Institute of Microbiology
USSR
Life science, Microorganisms, Metabolism

SHARP, P.
National Research Council
Environmental biology, Bioengineering, Remote sensing, Plants

SHASHKOV, V. S. 584
Institute of Industrial Hygiene & Occupational Diseases 1320
Academy of Medical Sciences 1473
USSR
Survival, Radiation, Physiology, Blood, Space flight, Enzyme,
Pharmacology, Oxygen effect, Genetics

SHATROVA, S. P. 1479
Institute of Labor Hygiene & Occupational Diseases
USSR
Medicine, Human

SHAVER, D. L.
Brookhaven National Laboratory
Biosatellite

SHAVRIN, P. I. 639
USSR 1299
Spaceships, Radiation, Space flight, Earth

SHAW, Emil G. 1204
USAF, School of Aerospace Medicine
Environmental Systems Branch
Bioastronautics Department
Brooks AFB, Texas
Physiology, Environment

SHCHEPOTEVA, Ye. S.
Central Institute of Health Resorts & Physical Therapy
USSR Ministry of Health
Moscow, USSR
Oxygen effect, Pharmacology, Radiation

SHEFFEY, P. L.
US
Environment, Canal sickness

SHEK, M. P. 1035
USSR
Dogs, Body temperature, Environment

SHELLABARGER, C. J. 630
Zoology Department
Dresge Radioisotope Unit
University of Michigan
Ann Arbor, Michigan
Heart, Radiation, Space

SHEN, S. P.
St. John's University
New York, New York
(State University of New York, Albany)
Space, Radiation

SHEPELEV, E. Ya.
USSR
Environment, Space capsule, Closed ecological system

SHEPHERD, L. R.
Space hazards, Radiation, Space flight

SHEPSHELEVICH, L. L.
Blood, Bone, Radiation, Dogs

SHERPING, F.
Lovelace Foundation for Medicine Education and Research
Albuquerque, New Mexico

547

SHEYKIN, R. L.
USSR
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SHIBRYA, G. I.
Institute of Physics
USSR
Space flight, Photochemistry, Photosynthesis, Plants,
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SHIK, L. A.
Respiration, Muscle, Physiology

SHILLING, C. W.
George Washington University
Biological Sciences Communication Project
Washington, D. C.
Physical biology, Communications

SHINABARGER, E. W.
Biomedical Laboratory
MRM, AMRL, Dayton, Ohio
Bioengineering, Muscle, Physiology, Animals, Skin

SHINKMAN, Paul G.
Operations Research Inc.
Silver Spring, Maryland
Weightlessness, Physiology, Space flight

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SHIRKOVA, G. I.
Laboratory Conditioned Motor Reflexes
Institute of Nervous Activity
Academy of Sciences
USSR
Conditioned response, Monkey

SHLEIFMAN, F. M.
USSR
Physiology, Environment

SHMELEVA, A. M.
USSR
Animals, Closed ecological system, Physiology, Gas exchange,
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SHMUKLER, Herman W.
Naval Air Development Center
Aviation Medical Acceleration Laboratory
Johnsville, Pennsylvania
Radiation, Protein, Rat, Brain

1431

SHOCK, Y. D.
Nervous system, Weightlessness

SHRADER, C. D.
US
Radiation, Space exploration

SHRAYBER, M. I.
USSR
Histology, Space flight

SHUL'TS, N. A.
Sochi Branch of All-Union Scientific Society of Laboratory
Physicians
USSR
Radiation, Blood

SHULYATIKOVA, A. YA.
USSR
Metabolism, Monkey, Radiation

SIDOROV, B. N. 662
USSR 1297
Plants, Space flight, Seeds, Genetics, Radiation

SIEGEL, S. 1505
Union Carbide Research Institute:
Plants, Simulated martian, Environmental biology

SILVER, Samuel 577
Space Sciences Laboratory
University of California
Berkeley, California
Growth, Microorganisms, Environment, Biochemistry, Exobiology

SILVERMAN, A. J.
School of Medicine
Duke University
Durham, North Carolina
Psychology, Physiology, Neurology, Behavior

SILVERMAN, Gerald J. 1070
Massachusetts Institute of Technology 1236
Cambridge, Massachusetts
Spores, Exobiology, Spacecraft sterilization, Closed ecology,
Microorganism, Extraterrestrial life

SIL'VESTROV, M. M.
USSR
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SIMONS, B.
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SIMONS, D. G.	600
Department of Bioastronautics	387
School of Aerospace Medicine	
Brooks AFB	
Texas	
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SIMONS, John C.	87
6570th Aerospace Medical Research Laboratory	120
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SINTON, William M.	
Lowell Observatory	
Arizona	
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Institute of Biochemistry	588, 589,
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Los Angeles, California
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STAPLETON, G. E.
Oak Ridge National Laboratory
Oak Ridge, Tennessee
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STAPP, John Paul
Aeromedical Laboratory
Wright Air Development Center
Wright Patterson AFB
Ohio
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Bio-Chemical Branch
Bio-Environmental Division
Life Sciences Department
U. S. Naval Missile Center
Point Mugu, California
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STEELE, Jack E.
Aerospace Medical Division
Aeromedical Research Laboratories
Wright Patterson AFB, Ohio
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STEFAN, C.
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STEIHM, E. R.
U. S. Air Naval Air Development Center
Johnsville, Pennsylvania
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U. S. Public Health Service
Communicable Disease Denter
Toxicology Section
Atlanta, Georgia
Toxicology, Exobiology, Spacecraft sterilization

STEINBERG, Alvin 1129
Defense Department
Office of the Director of Defense Research and Engineering
Washington, D. C.
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West Germany
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Astronautics Division
San Diego, California
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Astronautics Division
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Shell Development Company
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STEWART, J. L.
Biophysics Laboratories
Wright Patterson AFB
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Ear

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STEWART, W. K.
Institute of Aviation Medicine
Royal Air Force
Farnborough, England
Aviation medicine, Senses, Behaviour

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Aerospace Medical Division
6571st Aeromedical Research Laboratory
Holloman Air Force Base
New Mexico
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Brown University
Providence, Rhode Island
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STROGONOVA, L. Ye.
Institute of Plant Physiology
Photosynthesis Laboratory
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Inspectorate of Aeronautical Health
Research Department
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Experimental Physiology
Johns Hopkins University
Baltimore, Maryland
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Department of Hygiene	
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Massachusetts General Hospital
Neurosurgery
Boston, Massachusetts
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SZUTKA, A.
University of Detroit
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TAGAMI, T. 1480
Northrop Corporation
Hawthorne, California
Animal studies

TAGEYEVA, S. V.
Biology and Soil Science Department of Moscow States University
USSR
Algae, Chlorella

TAKIKAWA, Kiyoharu 1001
Nagoya University
School of Medicine
Japan
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TAMAS, Anton A.
Aerospace Medical Laboratory
Wright Air Development Center
Wright Patterson AFB, Ohio
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Santa Monica, California
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TAUFMAN, W.
Environment and Life Sciences
Republic Aviation Corporation
Farmingdale, Long Island, New York
Gravity, Growth, Plants

TAYLOR, B.
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TEICHNER, W. H.
Massachusetts University
Amherst, Massachusetts
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TELLO, Luis Rodolfo
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U. S. Army
Walter Reed Army Institute of Research
Walter Reed Army Medical Center
Washington, D. C.
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TEST, Eugene
Department of Botany
University of Maryland
College Park, Maryland
Algae, Yeast, Gravity, Radiation

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Massachusetts Institute of Technology
Cambridge, Massachusetts
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Chance Vought Research Center
Dallas, Texas
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Wright Patterson AFB 1073
Aerospace Medical Research Laboratories
Ohio
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Lovelace Foundation for Medical Education and Research
Albuquerque, New Mexico
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Baylor University
Waco, Texas
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THOROGOOD, E.
University of Pennsylvania
Philadelphia, Pennsylvania
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US
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TIKHOMIROV, Ye. P.
USSR
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Sector of Astrobiology
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Bioastronautics Branch
Biophysics Division
Air Force Special Weapons Center
Air Force Systems Command
Kirtland Air Force Base, New Mexico
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Institute of Biophysics
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Leningrad	
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University of California	
Donner Laboratories	
Berkeley, California	
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School of Aerospace Medicine
Brooks AFB, Texas
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Bell Telephone Laboratories, Inc.
Whippany, New Jersey
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USSR
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TYAN, M. L. 1440
Naval Radiological Defense Laboratory
San Francisco, California
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USSR
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 Ohio
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 USSR
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- VASIL'YEV, P. V. 1157
 NASA
 Washington, D. C.
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- VAUGHAN, D. A. 1434
 Aerospace Medical Division
 Arctic Aeromedical Laboratory
 Fort Wainwright, Alaska
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- VAUGHAN, Lucile N. 1434
 Aerospace Medical Division
 Arctic Aeromedical Laboratory
 Fort Wainwright, Alaska
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 University of California
 Berkeley, California
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 USSR
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- VENTRUTO, V. 1000
 Naples Hospital Center
 Italy
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Institute of Experimental Biology
USSR
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USSR
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VON Baumgarten, R.
Gottingen University
Germany
Brain, CNS, Bioengineering

VON Beckh, Harald 1039
Aerospace Medical Division
Wright Patterson AFB
Ohio
Motion sickness, Weightlessness, Space program

VON Borstel, R. C.
Oak Ridge National Laboratory
Oak Ridge, Tennessee
Biosatellite

VON Euler, U. S.
Department of Physiology
Karolinska Institutet
Stockholm 60, Sweden
Space biology

VON Gierke, Henning E. 102
Naval Medical Research Institute
Bethesda, Maryland
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VOSKRESENSKIY, A. D.
NASA
Washington
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VRABIESCU, A.
Institute of Geriatrics
Bucharest, Rumania
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Washington, D. C.
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Tucson, Arizona
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6571st Aeromedical Research Laboratory
Holloman AFB, New Mexico
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Convair Astronautics Division
General Dynamics Corporation
San Diego, California
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WINCKLER, John R.
Associate Professor
Department of Physics
Minnesota University
Minneapolis, Minnesota
Radiobiology

WINER, D. E.
American Machine and Foundry Company
Alexandria, Virginia
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Aero. Research Engineer
Aerodynamics
Ames Research Center
Mountain View, California
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California University
Los Angeles, California
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Lockheed Aircraft Corporation
Lockheed Missiles and Space Company
Sunnyvale, California
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U.S. Naval School Aviation Medical Research
Pensacola, Florida
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El Segundo, California
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Institute for Nuclear Research
Polish Academy of Science
Warsaw, Poland
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Pittsburgh, Pennsylvania
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May Clinic and Mayo Foundation
Rochester, Minnesota
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WORD, Julian E. 00363
Army Ballistic Missile Agency
Redstone Arsenal, Alabama
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Bioacoustics Laboratory
Syracuse University
Syracuse, New York
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State University of Iowa
Iowa City, Iowa
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Battelle Memorial Institute
Radiation Effects Information Center
Columbus, Ohio
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School of Aerospace Medicine
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Air Force Cambridge Research Center
Bedford, Massachusetts
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Astronautics Division
General Dynamics Corporation
San Diego, California
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Radio-toxicological Laboratory
Institute of Industrial Hygiene
Academy of Medical Sciences
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YOUNG, Marilyn
Graduate Assistant
Colorado State University
Fort Collins, Colorado
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YOUNG, R. J.
US
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YOUNG, Richard S.
Exobiology Division
Ames Research Center
Mountain View, California
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YOUNG, W. G., Jr.
Artic Aeromedical Laboratory
Ft. Wainwright, Alaska
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YOUTCHEFF, John S.
Construction Engineer
Missile and Space Vehicle Department
General Electric Company
Philadelphia, Pennsylvania
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YUGANOV, Ye. M.
Academy of Medical Sciences
Institute of Normal and Pathological Physiology
Moscow, USSR
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Biosatellite Project
Ames Research Center
Mountain View, California
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Florida State University
Institute for Space Biosciences
Tallahassee, Florida
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Institute of Microbiology
USSR
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ZAKHAROV, A. F.
Institute of Experimental Biology
USSR
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Joint Publications Research Service
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USSR
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ZALUSKY, Ralph
Aerospace Medical Center
School of Aerospace Medicine
Brooks AFB, Texas
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ZARET, Milton M.
Medical Center
New York University
New York, New York
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USSR
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ZECHMAN, F. W., Jr.
Wright-Patterson AFB, Ohio
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ZEFF, J. D.
American Machine and Foundry Company
Niles, Illinois
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Major, USAF, ATC.
School of Aviation Medicine
Brooks AFB, Texas
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Academy of Medical Sciences
Institute of Normal and Pathological Physiology
Moscow, USSR
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Moscow, USSR
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Military Medical Academy of Lenin
USSR
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University of Georgia
Athens, Georgia
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ZIMMERMAN, H.
Massachusetts Institute of Technology
Cambridge, Massachusetts
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USSR

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Academy of Medicinal Science

Moscow, USSR

ZWICK, Eugene B.

00777

Spacelabs, Inc.

01100

Van Nuys, California

Space flight, Food, Nutrition

ZWICKER, E.

00802

Bioacoustics Laboratory

Syracuse University

Syracuse, New York

Senses, Ear

ZWISLOCKI, J.

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Bioacoustics Laboratory

Syracuse University

Syracuse, New York

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ALGAE, Toxicity, Life support system - Thomae, Fred W.
ALGAE, Toxicity, Space capsules - Lubitz, Joseph A.
ALGAE, Toxicity, Space capsules, Chlorella, Foods - Lubitz, Joseph A.
AMERICAN Rocket Soc., Bioastronautics Committee - Douglas, William
AMERICAN Rocket Soc., Bioastronautics Committee - Beckman, Edward
AMERICAN Rocket Soc., Bioastronautics Committee - Augerson, William
ANALYSIS, Closed ecological system, Space flight - Townsend, Frank M.
ANIMALS, Closed ecological system, Physiology - Brelav, I.S.
ANIMALS, Closed ecological system, Physiology - Konza, Ye. N.
ANIMALS, Closed ecological system, Physiology, Gas exchange, Bioengineering - Il'nitskiy, A.M.
ANIMALS, Closed ecological system, Physiology, Gas exchange, Bioengineering - Salatsinskaya, Ye. N.
ANIMALS, Closed ecological system, Physiology, Gas exchange, Bioengineering - Shmeleva, A. M.
ANIMALS, Closed ecological system, Physiology, Gas exchange, Bioengineering - Troshikhin, G. G.
ANIMALS, Closed ecological system, Physiology, Gas exchange, Mice, Bioengineering - Konza, E. A.
ANIMALS, Closed ecological system, Physiology, Gas exchange, Mice, Bioengineering - Zhironkin, A. G.
ANIMALS, Food, Space flight, Bioengineering, Dogs, Training - Balakhovskiy, I.S.

ANIMALS, Food, Space flight, Bioengineering, Dogs, Training, Environment, space capsule, closed ecological system - Karpova, L. I.

ANIMALS, Space flight, Pathological - Petrukhin, V. G.

ANIMAL Studies, Aerospace medicine, Organisms, Canal sickness, Mammal, Chimpanzee, Monkey - Riopelle, A. J.

ANIMAL Studies, Algae, Food - Bowman, R. O.

ANIMAL Studies, Algae, Food - Leveille, G.A.

ANIMAL Studies, Algae, Food - McDaniel, R. H.

ANIMAL Studies, Algae, Food - Middlebrook, J. B.

ANIMAL Studies, Chimpanzee, Space program, Tracking task -

ANIMAL Studies, Decompression, Aerospace medicine - Furry, Donald E.

ANIMAL Studies, Environment - Pardi, L.

ANIMAL Studies, Environment, Birds - Hamilton, W. J.

ANIMAL Studies, Environment, Overpressure - Clare, V. R.

ANIMAL Studies, Environment, Physiology - Rohles, Frederick, Jr.

ANIMAL Studies, Feed - de Steiguer, Roy D.

ANIMAL Studies, Heart, Physiology - Angelakos, Evangelos T.

ANIMAL Studies, Human, Bibliography - Fregly, A. R.

ANIMAL Studies, Human, Physiology - Lange, K. A.

ANIMAL Studies, Insects, Space flight, Genetics, Drosophila, Plants, Radiation, Effects - Glembotskiy, Ya. L.

ANIMAL Studies, Insects, Space flight - Parfenov, G. P.

ANIMAL Studies, Man, Environment - Beischer, Dietrich E.

ANIMAL Studies, Mouse Impact - Bowen, Gerald I.

ANIMAL Studies, Mouse, Radiation - Chapman, Calvin C.

ANIMAL Studies, Muscle, Cells, Exobiology - Vol'fenson, L. G.

ANIMAL Studies, Muscle, Cells, Exobiology - Zander, N.V.

ANIMAL Studies, Organism, Environment - Sherping F.

ANIMAL Studies, Physiology, Behavior - Rokotova, N.A.

ANIMAL Studies, Physiology, Behavior, Monkey, Bioengineering - Bogina, I. D.

ANIMAL Studies, Physiology, Behavior, Monkey, Bioengineering - Bolotina, O. P.

ANIMAL Studies, Physiology, Behavior - Kucherenko, T. M.

ANIMAL Studies, Physiology, Space flight - Kotova, A. R.

ANIMAL Studies, Physiology, Space flight - Sarov, A. D.

ANIMAL Studies, Radiation, Diagnoses, Monkey - Pickering, John E.

ANIMAL Studies, Rat, Acceleration - Steihm, E. R.

ANIMAL Studies, Rat, Acceleration - Reeves, Elizabeth

ANIMAL Studies, Rats, Respiration - Yurkov, A. E.

ANIMAL Studies, Rats, Respiration, Space medicine, Flight, Physiology, Acceleration, Gas exchange, Weightlessness, Effects, Oxygen, Brain, Tissue, Gravitation, Muscle - Malkin, V. B.

ANIMAL Studies, Space capsule - Thompson, Allen B.

ANIMAL Studies, Space capsule - Gell, Charles F.

ANIMAL Studies, Space capsule - Stembidge, Verne

ANIMAL Studies, Space capsules, Closed ecological system - Weiswurm, Konrad

ANIMAL Studies, Space flight, Bibliography - Beischer, D. E.

ANIMAL Study, Space medicine, Algae - Rehkemper, J. A.

ANIMAL Studies, Sterilization, Space - Trexler, P. C.

ANIMAL Studies, Subgravity - Maher, P. J.

ANIMAL Studies, Subgravity, Mouse, Space, Cabin, Closed ecological system, Acceleration, Survival - Ballinger, E.

ANIMAL Studies, Subgravity, Weightlessness - Schock, G.
ANIMAL Studies, Virus - Metcalf, T. G.
ANIMAL Studies, Virus - Schmidt, J. P.
ANION, Radiation - Kniffen, D. A.
ANION, Radiation, Space environment - Naugle, John E.
ARMED FORCES - NRC Committee - Clark, Carl C.
ARTIFICIAL Satellite, Earth, Radiation - Sinsburg, V. L.
ARTIFICIAL Satellite, Earth, Radiation - Kurnosova, L. V.
ASTRONAUT Selection, Space flight, Radiation - Schwichtenberg, A.H.
ASTRONAUTS, Space flight, Suit - Wright, Ian B.
ATMOSPHERE Control, Environment, Spacecraft - Babinsky, Andrew D.
ATMOSPHERE, Control, Oxygen - Bovard, Robert M.
ATMOSPHERE Control - Carney, T. M.
AUTOMATIC Control - Hurt, G.J.
AVIATION Medicine, Psychology, Physiology - Graybiel, Ashton
AVIATION Medicine, Senses, Behavior - Stewart, W. K.

BACTERIA, Mars, Simulation, Exobiology - Bell, J.
BACTERIA, Mars, Simulation, Exobiology - Deal, P. H.
BACTERIA, Mars, Simulation, Exobiology, Biology - Allen J. L.
BACTERIA, Protein - Birkhoff, R.D.
BACTERIA, Protein - Carter, J. G.
BACTERIA, Protein - Nelson, D. R.
BACTERIA, Protein - Weinberg, C. J.
BALLOON - Patterson, H. G.
BALLOON, Brain, Mouse, Radiation - Haymaker, Webb
BALLOON, Genetics, Space - Meller G.
BALLOON, Impact - Martin, E. Dale
BALLOON, Planets, Venus - Strong, John D.
BEHAVIOR - Kuehnel, Helmut A.
BEHAVIOR, Aerospace medicine, Senses - Mueller, Donald D.
BEHAVIOR, Animals studies, Physiology - Kucherenko, T. M.
BEHAVIOR, Animal studies, Physiology - Bogina, I. D.
BEHAVIOR, Animal studies, Physiology - Bokotova, N.A.
BEHAVIOR, Bioengineering - Kuehnel, Helmut A.
BEHAVIOR, Bioengineering, Human, Psychology - Zimmer, H.
BEHAVIOR, Bioengineering, Senses - Rigg, L. D.
BEHAVIOR, Bioinstrumentation - Chambers, Randall M.
BEHAVIOR, Biosatellites, Chimpanzee, Mouse, Senses - Grumzki, Marvin E.
BEHAVIOR, Biosatellites, Chimpanzee, Mice, Senses, Environment,
 Physiology, Weightlessness - Robles, Frederick H., Jr.
BEHAVIOR, Gravity, Nervous system - Rossanigo, Franco
BEHAVIOR, Human, Weightlessness - Zhuravlev, B. A.
BEHAVIOR, Physiology, Gravity - Smith, Arthur H.
BEHAVIOR, Physiology, Senses, Psychology - Liederman, H. J.
BEHAVIOR, Pilots, Space flight - Elkind, K. I.
BEHAVIOR, Psychobiologics - Hartman, Bryce O.
BEHAVIOR, Psychiatry - Flinn, Don F.
BEHAVIOR, Rat, Acceleration - Herrick, Robert M.
BEHAVIOR, Respiration, Physiology - Hall, A. L.
BEHAVIOR, Sense - Grandjean, Etienne
BEHAVIOR, Senses, Human - Cramer, Earl H.
BEHAVIOR, Senses, Human - Hagen, Douglas
BEHAVIOR, Senses, Human - Monroe, John T.
BEHAVIOR, Senses, Mouse - Grunzke, Marvin E.
BEHAVIOR, Senses, Mouse - Röhles, Frederick H., Jr.
BEHAVIOR, Senses, Vision, Space environment - Adams, Carl R.
BEHAVIOR, Senses, Weightlessness - Brown, Edward L.
BEHAVIOR, Senses, Weightlessness - Flinn, Don E.
BEHAVIOR, Senses, Weightlessness, Psychiatry - Flinn Don E.
BEHAVIOR, Space Environment, Chimpanzee - Belleville, Richard E.
BEHAVIOR, Space flight, Brain - French, John D.
BEHAVIORAL Biology - Best, J. B.
BEHAVIORAL Biology - Chan, W.
BEHAVIORAL Biology - Clark, F. C.
BEHAVIORAL Biology - Ferguson, J.
BEHAVIORAL Biology - Ferster, C. B.
BEHAVIORAL Biology - Galombos, R.
BEHAVIORAL Biology - Grenell, R.
BEHAVIORAL Biology - Kellaway, P.

BEHAVIORAL Biology - Lange, K. O.
BEHAVIORAL Biology - Lilly, J. C.
BEHAVIORAL Biology - Lindsley, D. B.
BEHAVIORAL Biology - Olds, J.
BEHAVIORAL Biology - Schmitt, F. O.
BEHAVIORAL Biology - Tenber, H. L.
BEHAVIORAL Biology - Weinstein, S.
BEHAVIORAL Biology - Zimmerman, H.
BEHAVIORAL Biology, Circadian rhythms, Man, Sleep-wakefulness - Aschoff, J.
BEHAVIORAL Biology, Circadian rhythms, Rats, Space environment - Bolles, R.
BEHAVIORAL Biology, Environment, Weightlessness, Animal studies, Subgravity, Mouse, Space cabin, Closed ecological system - Henry James P.
BEHAVIORAL Biology, Neurology, Molecular Biology - Augenstein, Leroy G.
BEHAVIORAL Biology, Neurology, Stimulation - Valenstein, E.
BIBLIOGRAPHY, Animal studies, Human - Fregly, A. R.
BIBLIOGRAPHY, Animal studies, Space flight - Beischer, D. E.
BIBLIOGRAPHY, Heart, Space environment, Monkey, Canal sickness, Space medicine, Human, Animals, Chimpanzee, Magnetism - Beischer, Dietrich E.
BIBLIOGRAPHY, Humans - Gonon, J. P.
BIBLIOGRAPHY, Human, Space environment - Banghart, Frank W.
BIBLIOGRAPHY, Human, Space environment - Pattishall, Evan G.
BIBLIOGRAPHY, Motion sickness, Human, Vibration, Acceleration - Buckhout, Robert
BIBLIOGRAPHY, Physiology, Radiation - Gex, Robert C.
BIBLIOGRAPHY, Sensory deprivation, Behavior - Parker, James W.
BIBLIOGRAPHY, Sensory deprivation, Behavior - Weybrew, B. B.
BIBLIOGRAPHY, Space medicine, Physiology - Jacobius, Arnold J..
BIBLIOGRAPHY, Space medicine, Physiology - Kenk, Roman
BIBLIOGRAPHY, Space medicine, Physiology, Bioastronautics - Jacobuis, Arnold J.
BIBLIOGRAPHY, Space medicine, Space flight - Beischer, Dietrich E.
BIBLIOGRAPHY, Space medicine, Space flight, Animal studies - Fregly, Alfred R.
BIBLIOGRAPHY, Space flight, Weightlessness - Price, J. F.
BIBLIOGRAPHY, Space medicine, Weightlessness - Repass, Eleanor
BIBLIOGRAPHY, Temperature control, Space capsule - Abbott, Helen M.
BIBLIOGRAPHY, Vibration - Clark, Carl
BIBLIOGRAPHY, Vibration - McCloskey, Keith
BIBLIOGRAPHY, Vibration, Acceleration - Buckhout, Robert
BIOASTRONAUTICS - Grandpierre, R.
BIOASTRONAUTICS - Margaria, Rodolfo
BIOASTRONAUTICS - Schubert, Gustav
BIOASTRONAUTICS, Bioinstrumentation - Hetherington, Albert W.
BIOASTRONAUTICS Committee, Amer. Rocket Soc. - Augerson, William, M.D.
BIOASTRONAUTICS Committee, American Rocket Soc. - Beckman, Edward
BIOASTRONAUTICS Committee, American Rocket Soc. - Douglas, William
BIOASTRONAUTICS, Information exchange - Jacobius, A. J.
BIOASTRONAUTICS, Information exchange - Seeley, Sam F.
BIOASTRONAUTICS, Liaison - Arthur, George R.
BIOASTRONAUTICS, Liaison - Barron, Charles I.

BIOASTRONAUTICS, Liaison - Comming, L. G.
BIOASTRONAUTICS, Liaison - Durant, Frederick C., III
BIOASTRONAUTICS, Liaison - Nottage, H. B.
BIOASTRONAUTICS, Liaison - Phoebus, C. P.
BIOASTRONAUTICS, Liaison - Randt, Clark T.
BIOASTRONAUTICS, Liaison - Small, Arnold
BIOASTRONAUTICS, Liaison - Smith, Dale G.
BIOASTRONAUTICS, Liaison - Trumbull, Richard
BIOASTRONAUTICS, Liaison - White, Stanley
BIOASTRONAUTICS, Life sciences, Mammals, Circulatory system, De-compression - Clemedson, Carl-Johan
BIOASTRONAUTICS, Project Mercury - Flickinger, Donald D.
BIOASTRONAUTICS, Project Mercury, Space medicine, Physiology - Flickinger, Donald D.
BIOASTRONAUTICS, Weightlessness, Perception, Acceleration
BIOCHEMISTRY, Algae, Space flight - Barashkov, G. K.
BIOCHEMISTRY, Food, Radiation - Kas'yan, I. I.
BIOCHEMISTRY, Food, Radiation - Metlitskii, L. V.
BIOENGINEERING - Bean, R. C.
BIOENGINEERING - Bobranski, B.
BIOENGINEERING - Boyer, M. H.
BIOENGINEERING - Carah, A.J.
BIOENGINEERING - Craig, J.
BIOENGINEERING - Deutsch, S.
BIOENGINEERING - Dingley, E. N., Jr.
BIOENGINEERING - Ernsting, J.
BIOENGINEERING - Gorman, H. A.
BIOENGINEERING - Gran, R.
BIOENGINEERING - Inami, Y. H.
BIOENGINEERING - Jury, E. I.
BIOENGINEERING - Kay, R. E.
BIOENGINEERING - La Rue, F.
BIOENGINEERING - Mikhae'chenko, V.
BIOENGINEERING - Noyes, R. C.
BIOENGINEERING - Pavlidès, T.
BIOENGINEERING - Pierce, Dean
BIOENGINEERING - Pitts, D. G.
BIOENGINEERING - Pruett, C.
BIOENGINEERING - Tanner, Terry
BIOENGINEERING - Tsikora, S.
BIOENGINEERING - Walwick, E. R.
BIOENGINEERING - Weltman, Gershon
BIOENGINEERING, Aerospace medicine, Human - Cermann, Rolf R.
BIOENGINEERING, Cell, Radiation - England, Loy D.
BIOENGINEERING, Cell, Radiation - Launer, Robert L.
BIOENGINEERING, Cell, Radiation - Morgan, Ira L.
BIOENGINEERING, Cell, Radiation - Pizzuto, Joseph S.
BIOENGINEERING, Cell, Radiation - Pomerat, Charles M.
BIOENGINEERING, Cell, Radiation - Tucker, William E.
BIOENGINEERING, Closed ecological system, Space medicine - Willard, T. L.
BIOENGINEERING, Closed ecology - Foster, John F.
BIOENGINEERING, Environment - Cervi, J. J.

BIOENGINEERING, Environment - Hoover, G. W.
BIOENGINEERING, Environment - Massimino, M. J.
BIOENGINEERING, Exercise, Heart - Butchenko, L. A.
BIOENGINEERING, Gaseous environment - Adair, D.
BIOENGINEERING, Heart, Problems - Akulinichev, I. T.
BIOENGINEERING, Life science, Space program - Richmond D. R.
BIOENGINEERING, Life science, Space program - Goldizen, V. C.
BIOENGINEERING, Life science, Space program - Bowen, I. G.
BIOENGINEERING, Life science, Space program - Chiffelle, T. L.
BIOENGINEERING, Life support systems - Hayes, Edward L.
BIOENGINEERING, Life support systems - Zeff, J. D.
BIOENGINEERING, Life support system - Bosee, Roland A.
BIOENGINEERING, Life support systems - Hayes, Edward L.
BIOENGINEERING, Life support systems, Closed ecological systems,
Respiration, Human - Bambenek, Robert A.
BIOENGINEERING, Life support, Space exploration - Donner, W.
BIOENGINEERING, Life support, Space exploration - Gafford, R. D.
BIOENGINEERING, Manned, Human - Wolbers, Harry L.
BIOENGINEERING, Metabolism - Matov, V. V.
BIOENGINEERING, Mice, Radiation, Spaceships - Baranovskaya, V. I.
BIOENGINEERING, Muscle, Physiology, Animals, Skin - Shinabarger, E. W.
BIOENGINEERING, Physiology -
BIOENGINEERING, Physiology - Cardon, S. Z.
BIOENGINEERING, Physiology - Iberall, A.S.
BIOENGINEERING, Physiology - Marko, Adolf R.
BIOENGINEERING, Physiology - Potor, G., Jr.
BIOENGINEERING, Physiology - Robins, Kenneth E.
BIOENGINEERING, Physiology, Environment, Weightlessness - Barnard,
George W.
BIOENGINEERING, Physiology, Space - Slonim, A. R.
BIOENGINEERING, Physiology, Space flight - Grandpierre, R.
BIOENGINEERING, Physiology, Space flight - Hallam, A. P.
BIOENGINEERING, Physiology, Space flight - Jensen, D. H.
BIOENGINEERING, Physiology, Space flight - Kammermeyer, K.
BIOENGINEERING, Physiology, Space flight - Roman, J. A.
BIOENGINEERING, Physiology, Space flight - Violette, F.
BIOENGINEERING, Plant, Photosynthesis - Wallman, H.
BIOENGINEERING, Plant, Photosynthesis - Dodson, L.
BIOENGINEERING, Problems, Heart - Fogel'son, L. I.
BIOENGINEERING, Problems, Heart - Degtyar', G. Ya.
BIOENGINEERING, Problems, Heart - Starobinets, K. M.
BIOENGINEERING, Problems, Heart - Timashuk, K. F.
BIOENGINEERING, Problems, Psychology - Denissov, V. G.
BIOENGINEERING, Problems, Psychology - Akulinichev, E. T.
BIOENGINEERING, Radiation, Effect - Kurlyandskaya, E. B.
BIOENGINEERING, Senses, Behavior - Rigg, L. D.
BIOENGINEERING, Space capsule, Human - Smith, Bertram J.
BIOENGINEERING, Space capsule, Human, Biosatellite - Lawton, Richard W.
BIOENGINEERING, Space flight - Kelly, G. F.
BIOENGINEERING, Space flight - Kenisov, V. G.
BIOENGINEERING, Space flight - Phipps, C. G.
BIOENGINEERING, Speech, Weightlessness - Borzhchhevskiy, Ya.
BIOENGINEERING, Speech, Weightlessness - Belyalcov, G. M.

BIOENGINEERING, Speech, Weightlessness - Gurovskdy, N. N.
BIOENGINEERING, Speech, Weightlessness - Kuznetsov, V. S.
BIOENGINEERING, Speech, Weightlessness - Yukanov, Ye. M.
BIOENGINEERING, Suit, Space environment, Heat - Knezek, R. A.
BIOENGINEERING, Suit, Space environment, Heat - Whisenhunt, G. B.
BIOENGINEERING, Thermal balance, Human - Kitzinger, Charlotte
BIOENGINEERING, Waste, Crew - Baumgartner, D. J.
BIOENGINEERING, Waste, Crew - Walters, C. F.
BIOENGINEERING, Waste, Physiology, Gas pressure - Moyer, James E.
BIOENGINEERING, Zero-gravity, Environment - Alexander, H. S.
BIOENGINEERING, Zero-gravity, Environment - Baer, R. A.
BIOENGINEERING, Zero-gravity, Environment - Balkin, D. P.
BIOENGINEERING, Zero-gravity, Environment - Celentano, J. T.
BIOENGINEERING, Zero-gravity, Environment - Johnson, S. P.
BIOENGINEERING, Zero-gravity, Environment - Reynolds, J. B.
BIOINSTRUMENTATION, Physiology, Mammals, Physical biology - Jones, Hardin B.
BIOINSTRUMENTATION, Behavior - Shambers, Randall M.
BIOINSTRUMENTATION, Bioastronautics - Hetherington, Albert W.
BIOINSTRUMENTATION, Environment, Metabolism - Brown, Allan H.
BIOINSTRUMENTATION, Physiology, Mammals - Jones, Hardin B.
BIOINSTRUMENTATION, Space environment, Neurology - Adey, W. R.
BIOLOGIC Systems, Radiation, Effects - Preston, William M.
BIOLOGIC Systems, Radiation, Effects - Sweet, William H.
BIOLOGICAL, Regeneration - Dyer, Denzel L.
BIOLOGISTICS, Radiation, Space flight, Extra-terrestrial space - Campbell, Paul A.
BIOLOGY, Physiology, Space flight - Chernigovsky, V. N.
BIOLOGY, Physiology, Space flight - Gnzenko, O. G.
BIOLOGY, Physiology, Space flight - Yazdovsky, V. I.
BIOLOGY, Radiation, Microorganisms - Roberts, Thomas L.
BIOLOGY, Radiation, Space flight - Zellmer, Robert W.
BIOLOGY, Space - Clark, David T.
BIOLOGY, Space flight - Price, John B.
BIOLOGY, Space flight, Human - Lyman, John
BIOMEDICAL Aspects, Logistics aspects - Ulvedal, Frode
BIOMEDICAL Aspects, Space flight, Logistics aspects - Morgan, Thomas E., Jr.
BIOMEDICAL Aspects, Space medicine - Lovelace, W. Randolph II
BIOMEDICAL Evaluation, Escape - Lamb, Lawrence E.
BIOMEDICINE, Space medicine - Schwichtenberg, A. H.
BIOSATELLITE - Bender, M. A.
BIOSATELLITE - Dahl, A. O.
BIOSATELLITE - De Serres, F. J.
BIOSATELLITE - Edwards, B. F.
BIOSATELLITE - Ferguson, M. L.
BIOSATELLITE - Fredrickson, A. G.
BIOSATELLITE - Gray, S. W.
BIOSATELLITE - Halberg, F.
BIOSATELLITE - Oakberg, E. F.
BIOSATELLITE - Perez-Cruet, J.
BIOSATELLITE - Price, R. W.
BIOSATELLITE - Schairer, L. A.

BIOSATELLITE - Shaver, D. L.
BIOSATELLITE - Sparrow, A. H.
BIOSATELLITE - Stapleton, G. E.
BIOSATELLITE - von Barstel, R. C.
BIOSATELLITE, Bacteria, Exobiology, Mars, Space - Young, Richard S.
BIOSATELLITE, Behavioral biology, Circadian rhythms, Physiology,
 Psychology, Metabolism, Animals - Pittendrigh, Colin S.
BIOSATELLITE, Bioengineering - Martell, Charles J.
BIOSATELLITES, Chimpanzee, Behavior - Grunzke, M. E.
BIOSATELLITES, Chimpanzee, Behavior - Rohles, Frederick, Jr.
BIOSATELLITES, Exobiology - Tsuchiya, H. M.
BIOSATELLITES, Hazards in space, Physiology, Senses, Eye, Space
 flight, Space ecology, Mars - Strughold, Hubertus
BIOSATELLITE, Space flight - Haviland, Robert P.
BIOTELEMETRY - Kapitanov, R. A.
BIOTELEMETRY, Brain, Blood, Space flight - Maumenko, A. I.
BIOTELEMETRY, Human - Douglas, David W.
BIOTELEMETRY, Human - Seal, Herbert R.
BLOOD, Cells, Space flight - Kalyayeva, E. S.
BLOOD, Cells, Space flight - Kabanova, L. A.
BLOOD, Cells, Space flight - Il'ina, S. S.
BLOOD, Cells, Space flight - Orlova, N. N.
BLOOD, Cells, Space flight - L'vova, T.S.
BLOOD, Cells, Space flight - Petrukhin, V. G.
BLOOD, Cells, Space flight - Antipov, V. V.
BLOOD, Cells, Space flight - Arsen'yeva, M. A.
BLOOD, Decompression - de Angelis, A. M.
BLOOD, Gaseous exchanges, Decompression - Mazzelle, G.
BLOOD, Growth, Rat - Feigen, George A.
BLOOD, Heart, Physiology - Ross, Joseph C.
BLOOD, Heart, Physiology - Maddock, Gene E.
BLOOD, Heart, Physiology - Ley, Glen D.
BLOOD, Mouse Physiology - Arsen'yeva, M. A.
BLOOD, Pathology - Dini, E.
BLOOD, Pathology - Quattrin, N.
BLOOD, Pathology - Ventrufo, V.
BLOOD, Physiology - Lisiewicz, J.
BLOOD, Physiology, Mammals - Pace, Nello
BLOOD, Physiology, Mouse - Antipov, V. V.
BLOOD, Protein, Circulatory system - Mancine, Roberto Eusbio
BLOOD, Protein, Physiology - Smolichev, E. P.
BLOOD, Radiation - Bandres, Julio Rivera
BLOOD, Rat, Growth - Johnson, Paul K.
BLOOD, Rat, Space cabin - Jenson, Robert L.
BLOOD, Tissue, Radiation - Sorinzontov, P. D.
BLOOD, Tissue, Radiation - Sbitneva, M. F.
BLOOD, Tissue, Radiation - Trushina, M. N.
BODY Temperature, Heat regulation - Veghte, J. H.
BODY Temperature, Heat regulation - Webb, Paul
BODY Temperature, Physiology, Skin - Iampietro, P. F.
BONE, Blood, Radiation - Fleischhacker, H.
BONE, Blood, Radiation - Stacher, A.
BONE, Blood, Radiation, Physiology - Szirmai, E.
BONE, Blood, Radiation, Rate - Hibine, Susumu

BONE, Blood, Radiation, Rats - Iwauchi, Takashi
BONE, Blood, Radiation, Rats - Takikawa, Kiyoharu
BRAIN - Feygenberg, I. M.
BRAIN, Behavior, Space flight - French, John D.
BRAIN, Blood - Kopylov, M. B.
BRAIN, Blood - Plevako, N. S.
BRAIN, C N S, Bioengineering - von Baumgarten, R.
BRAIN, Ear, Biotelemetry - Khilov, K. L.
BRAIN, Ear, Medicine - Koch, C.
BRAIN, Environment, Weightlessness, Perception, Magnetic fields,
 Physiology, Acceleration - Gualtierotti, Torquato
BRAIN, Human, Respiration - Marshak, MYe.
BRAIN, Human, Zero-gravity, Space flight - Sem-Jacobsen, C.W.
BRAIN, Mouse, Radiation, Balloon - Haymaker, Webb
BRAIN, Mouse, Cosmic radiation, Balloon, Monkey - Haymaker, Webb
BRAIN, Shivering - Kawamura, Y.
BREATHING, Pressure, Physiology - Allfenov, V. N.
BREATHING, Pressure, Physiology - Vakar, M. I.
BREATHING, Pressure, Physiology - Yeremin, A. V.
BREATHING, Pressure, Physiology - Ivanov, A. Ye.
BRITAIN, Space program - N.S. (oo238)

CABIN, Humans, Environment, Gas pressure, Respiration, Physiology,
Closed ecology - Welch, Billy E.

CANAL Sickness, Aerospace medicine, Monkeys, Animal studies, Organisms, Mamal - Meek, Joseph C.

CANAL Sickness, Chimpanzees, Monkey - Beischer, D. E.

CANAL Sickness, Chimpanzees, Monkey - Riopelle, A. J.

CANAL Sickness, Simicircular canal, Environment - Guedry, Fred E., Jr.

CANAL Sickness, Simicircular Canal, Environment - Graybiel, Ashton

CAPABILITIES, Space environment, Human - Preston, Richard J.

CAPSULE - Weech, B. E.

CAPSULE, Environment, Closed ecology - Bolstad, Luther

CAPSULE, Human, Psychobiology, Physiology, Gas pressure - Mc Kenzie, Richard E.

CAPSULE, Physiology, Gas pressure, Respiration, Human - Morgan, Thomas E., Jr.

CAPSULE, Respiration, Closed ecological system - Rosenbaum, D. A.

CATS, Eye - Collins, William E.

CELLS, Radiation - Khollender, E.

CELL Research, Radiation, Chromosome damage

CELLS, Space biology - Lozina-Lozinskiy, L. K.

CELLS, Space flight, Blood - Arsen'yeva, M. A.

CELLS, Space flight, Blood - Antiov, V. V.

CELLS, Space flight, Blood - Petrukhin, V. G.

CELLS, Space flight, Blood - L'vova, T. S.

CELLS, Space flight, Blood - Orlova, N. N.

CELLS, Space flight, Blood - Il'lina, S. S.

CELLS, Space flight, Blood - Kabanova, L. A.

CELLS, Space flight, Blood - Kalyayeva, E. S.

CELLS, Space flight, Radiation - Davis, Irving

CELLS, Space flight, Radiation - Roberts, Thomas L.

CELLS, Spaceship, Microorganism - Zhukov-Verezhnikov, N. N.

CELLS, Spaceship, Microorganism - Mayskiy, Im M.

CELLS, Spaceship, Microorganism - Yazdovskiy, V. I.

CELLS, Spaceship, Microorganism - Pekhov, A. P.

CELLS, Spaceship, Microorganism - Gyurdzhian, A. A.

CELLS, Spaceship, Microorganism - Rybakov, N. I.

CELLS, Spaceship, Microorganism - Antipov, V. V.

CELLS, Spores, Radiation - Prince, John E.

CENTRIPETAL Force, Water immersion, Human, Performance, Training - Clark, Brant

CHIMPANZEE - Forchielli, Enrico

CHIMPANZEE - Stambler, Irwin

CHIMPANZEE, Aerospace medicine, Acceleration - Stingely, Norman E.

CHIMPANZEE, Behavior, Biosatellites - Grunzke, M. E.

CHIMPANZEE, Behavior, Space Environment - Belleville, Richard E.

CHIMPANZEE, Capsule - Stambler, Irwin

CHIMPANZEE, Flight - Wagner, Bernard M.

CHIMPANZEES, Monkey, Canal sickness - Beischer, D. E.

CHIMPANZEES, Monkey, Canal sickness - Riopelle, A. J.

CHIMPANZEE, Performance, Acceleration - Garnhart, Gary T.

CHIMPANZEE, Performance, Acceleration - Farrer, Donald N.

CHIMPANZEE, Performance, Acceleration - Grunzke, Marvin E.

CHIMPANZEE, Performance, Acceleration - Gilbert, Gregg A.
CHIMPANZEE, Performance, Acceleration - Jacobs, Paul D.
CHIMPANZEE, Physiochemistry, Environment - Elmadjian, Fred
CHIMPANZEE, Project Mercury - Reynolds, Herbert H.
CHIMPANZEE, Space flight - Bogo, Victor
CHIMPANZEE, Space flight - Farrer, Donald N.
CHIMPANZEE, Space Program, Tracking task - Wilson, Gordon L.
CHLORELLA, Algae, Metabolism - Galloway, R.A.
CHLORELLA, Foods, Algae - Lubitz, Joseph A.
CHLORELLA, Physiochemistry, Space flight - Semenko, V. E.
CHLORELLA, Wastes, Biologistics - Pipes, Wesley O.
CHLORELLA, Wastes, Plant - Oioes, Wesley O.
CHLOROPHYLL, Closed ecological system, Plant - Marcus, Rudolph J.
CIRCULATORY System, Dog, Space flight, Radiation - Yakovlev, V. V.
CLOSED Ecological System, Algae - Benishek, B. J.
CLOSED Ecological System, Algae - Bolgarov, Nikolay
CLOSED Ecological System, Algae - Golueke, Clarence G.
CLOSED Ecological System, Algae - Oswald, W. J.
CLOSED Ecological System, Algae, Culture - Brown, Allan H.
CLOSED Ecological System, Algae, Culture, Photosynthesis, Gas Exchanger-
Myers, Jack E.
CLOSED Ecological System, Algae, Photosynthesis - Fulton, John D.
CLOSED Ecological System, Algae, Photosynthesis - Gafford, Robert B.
CLOSED Ecological System, Bioengineering, Space - Scheppeler, Robert H.
CLOSED Ecological System, Environment - Bates, Jack H.
CLOSED Ecological System, Environment - Ingram, William T.
CLOSED Ecological System, Environment - Pine, Bruce W.
CLOSED Ecological System, Environment - Ross, Malcolm D.
CLOSED Ecological System, Environment, Microorganisms,Waste - Ingram,
William T.
CLOSED Ecological System, Environment, Plant - Golueke, Clarence G.
CLOSED Ecological System, Metabolism, Respiration - Bursack, William W.
CLOSED Ecological System, Nutrition, Food, Physiology, Feces - Wick,
Emily L.
CLOSED Ecological System, Nutrition, Food, Physiology, Feces, Space
flight - Goldblith, Samuel A.
CLOSED Ecological Systems, Photosynthesis, Algae - Dodson, J. L.
CLOSED Ecological Systems, Photosynthesis, Algae - Wallman, H.
CLOSED Ecological System, Physiology, Animals - Salatsinskaya, Ye. N.
CLOSED Ecological System, Physiology, Animals - Konza, Ye. N.
CLOSED Ecological System, Physiology, Animals - Il'nitskiy, A. M.
CLOSED Ecological System, Physiology, Animals - Zhironkin, A. G.
CLOSED Ecological System, Physiology, Animals - Brealav, I. S.
CLOSED Ecological System, Physiology, Animals - Troshikhin, G. V.
CLOSED Ecological System, Physiology, Animals - Shmeleva, A. M.
CLOSED Ecological System, Physiology, Gas, Exchange, Bioengineering -
Bogatkov, P. I.
CLOSED Ecological System, Physiology, Gas, Exchange, Bioengineering -
Mitushov, M. I.
CLOSED Ecological System, Physiology, Gas, Exchange, Bioengineering -
Nozdrachev, A. D.
CLOSED Ecological System, Physiology, Gas Exchange, Bioengineering -
Poletayev, M. I.

CLOSED Ecological System, Physiology, Respiration, Life support, Space environment, Space medicine - Keating, Donald A.

CLOSED Ecological System, Plant, Algae - Sun, L. S.

CLOSED Ecological System, Plant, Algae - Bovee, H. H.

CLOSED Ecological System, Plant, Algae - Eng, T. L.

CLOSED Ecological System, Plant, Algae - Pilgrim, A. J.

CLOSED Ecological System, Plant, Chlorophyll - Marcus, Rudolph J.

CLOSED Ecological System, Plant, Life support system - Wilks, Syrel

CLOSED Ecological System, Plant, Photosynthesis - Myers, Jack

CLOSED Ecological Systems, Pressure - Brestkin, A. P.

CLOSED Ecological Systems, Pressure - Yakoleva, E. V.

CLOSED Ecological Systems, Pressure - Yurkov, Yu. A.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Botvinnikov, A. P.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Fel'dman, L. A.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Freyman, G. N.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Ginsburg, I.. Sh.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Ivanov, G. I.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Ivchenko, O. I.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Libin, Yu. M.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Rudnyz, N. M.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system - Salmanov, L. P.

CLOSED Ecological Systems, Pressure, Respiration, Circulatory system, Toxicity, Human, Gaseous environment - Gramatinskiy (Gramenitskiy), P. M.

CLOSED Ecological System, Respiration - Weiswurm, Konrad

CLOSED Ecological System, Respiration, Human - Bambeneck, R. A.

CLOSED Ecological System, Respiration, Human - Kubiak, E. J.

CLOSED Ecological System, Respiration, Human - Rest, J.

CLOSED Ecological System, Space capsule, Animal studies - Weiworm, Konrad

CLOSED Ecological System, Space capsule, Life support system - Bosee, Roland A.

CLOSED Ecological System, Space capsule, Life support system, Physiology, Metabolism, Bioengineering - Bosee, Roland A.

CLOSED Ecological System, Space environment, Space medicine - Roundy, Robert W.

CLOSED Ecological System, Space environment, Space flight - Konikoff, J. J.

CLOSED Ecological System, Space environment, Space medicine - Keating, Donald A.

CLOSED Ecological System, Space flight, Algae - Ward, Calvin N.

CLOSED Ecological System, Space flight, Analysis, Toxicology - Townsend, Frank M.

CLOSED Ecological System, Space flight, Exobiology - Phillips, J. N.

CLOSED Ecological System, Space flight, Microorganisms - Ingram, William T.

CLOSED Ecological System, Space flight, Weightlessness - Baevskii, R. M.

CLOSED Ecological System, Space medicine, Bioengineering - Willard, T. L.
CLOSED Ecological System, Space medicine, Space flight - Bosee, Roland A.
CLOSED Ecological System, Space medicine, Space flight, Physiology,
Metabolism - Tiller, Perry R.
CLOSED Ecological System, Space medicine, Weightlessness - Hearld, A. B.
CLOSED Ecological System, Space medicine, Weightless - Metzger, C. A.
CLOSED Ecological System, Urine, Space environment - Slonim, A. R.
CLOSED Ecological System, Urine, Space environment - Hallam, A. P.
CLOSED Ecological System, Urine, Space environment, Physiology, Bio-
engineering - Hallam, A. P.
CLOSED Ecological System, Urine, Space environment, Physiology, Bio-
engineering - Slonim, A. R.
CLOSED Ecology, Capsule, Waste - Newman, Bernard
CLOSED Ecology, Capsule, Waste - Palevsky, Gerald
CLOSED Ecology, Gaseous environment, Algae, Rats, Fungi - London, Shel-
don A.
CLOSED Ecology, Life support system - Keating, Donald A.
CLOSED Ecology, Gaseous environment, Algae, Rats, fungi - West, Arselus
CLOSED Ecology, Man, Physiology, Gas pressure, Respiration - Cutler,
Ralph Garr
CLOSED Ecology, Waste, Capsule - Slote, Lawrence
COMMUNICATION - Barker, Boone A.
COMMUNICATION - Latorre, Victor R.
COMMUNICATION, Animal, Biotelemetry - Wiener, N.
CONDITIONED Response, Monkey - Shirkova, G. I.
CONDITIONED Response, Monkey - Verevkina, G. L.
CONDITIONED Response, Sense, Chimpanzee - Chason, Lloyd R.
CONDITIONED Response, Sense, Chimpanzee - Thompson, William D.
CONDITIONS, Space flight, Physiology - Volynkin, Y. M.
CONDITIONS, Space flight, Physiology - Saksonov, P. P.
CORIOLIS, Semicircular canal - Mongague, E. K.
CREW - Day, Richard E.
CULTURE, Algae, Plant - Semenenko, V. Ye.
CULTURE, Algae, Plant - Vladimirova, M.G.
CULTURE, Algae, Plant - Nichiporovich, A. A.
CULTURE, Closed ecological system - Brown, Allan H.
CULTURE, Closed ecological system, Algae - Myers, Jack E.
CULTURE, Microorganisms - Krauss, Robert W.
CULTURE, Space flight, Tissue - Katzberg, Allan A.

DECOMPRESSION - Billings, C. E., Jr.
DECOMPRESSION - Donaldson, R. T.
DECOMPRESSION - Gøransson, A.
DECOMPRESSION - Lundin, G.
DECOMPRESSION - Lundgren, C.
DECOMPRESSION - Mansurov, A. R.
DECOMPRESSION - Tsivilashvili, A.S.
DECOMPRESSION, Aerospace medicine, Animal studies - Furry, Donald E.
DECOMPRESSION, Monkey-in-space - Carter, Eart T.
DECOMPRESSION, Rat, Pharmacology - Dahl, Elmer V.
DECOMPRESSION, Rat, Pharmacology - Lyle, Carl B., Jr.
DECOMPRESSION, Space exploration - Ruff, S.
DECOMPRESSION, Space medicine - Hitchcock, Fred A.
DIAGNOSIS, Animal studies, Radiation - Pickering, John E.
DOGS, Bioengineering, Space flight - Osipova, M. M.
DOGS, Blood, Metabolism - Durrer, John L.
DOGS, Body temperature, Environment - Shek, M. P.
DOGS, C N S, Motion sickness - Bariskin, V. V.
DOG, Circulatory system - Burnengo, E.
DOG, Circulatory system - Dagianti, A.
DOGS, Physiology, Respiration - Barry, J. L.
DOGS, Physiology, Respiration - Barry, J. Q.
DOGS, Physiology, Respiration - Gold, A. J.
DOGS, Physiology, Respiration - Ferguson, F. P.
DOGS, Physiology, Respiration - Smith, D. C.
DOG, Radiation, Heart - Michaelson, Solomon
DOG, Radiation, Heart - Moss, Arthur J.
DOG, Radiation, Heart - Murphy, Gerald W.
DOG, Radiation, Heart - Schreiner, Bernard F.
DOG, Radiation, Heart - Smith, Douglas W.
DOGS, Radiation, Sensitivity - Dareneskaya, N. G.
DOGS, Radiation, Sensitivity - Domshlak, M. P.
DOGS, Rats, Circulation, Metabolism, Heat regulation, Environment,
Respiration, Pharmacology - Hannon, John P.
DOG, Sanitary engineering, Waste - Zakhar'yev, G. A.
DOGS, Space flight, biotelemetry, Heart - Kazar'yan, L. A.
DOGS, Space medicine, Space flight - Parin, V. V.

EAR - Caldwell, W. F.
EAR - Glaesser, E.
EAR - Gravendeel, D. W.
EAR - Mimpren, A. M.
EAR - Plomp, R.
EAR - Stewart, J. L.
EAR, Embryo - Guha, Sijit
EAR, Environment - Fletcher, J. L.
EAR, Environment - Mendelson, E. S.
EAR, Environment, Senses, Physiology - Loeb, Michel
EAR, Physiology - Lozanov, N. N.
EAR, Physiology - Mazza, G.
EAR, Training, Pilot, Space flight - Kulikovskiy, G. G.
ECOLOGICAL System - Konecci, Eugene B.
ECOLOGICAL System, Space cabins - Wood, N. E.
ECOLOGY, Radiation - Platt, Robert B.
ECOLOGY, Space station - Ross, R. E.
EFFECT, Bioengineering, Radiation - Kurlyandskaya, E. B.
EFFECTS, Environment, Microorganisms - Keller, Wayne H.
EFFECT, Radiation, Genetics - Rapoport, I. A.
EFFECT, Radiation, Genetics - Miller, A. V.
EFFECTS, Biologic Systems, Radiation - Preston, William M.
EFFECTS, Biologic Systems, Radiation - Sweet, William H.
EFFECTS, Genetics, Radiation - DeBusk, A. Gib.
EFFECTS, Physiology, Gravation - Yukanov, Ye. M.
EFFECTS, Physiology, Gravation - Kas'yan, I. I.
EFFECTS, Physiology, Gravation - Cherepakhin, M. A.
EFFECTS, Physiology, Weight - Kelly, C. F.
EFFECTS, Rotation, Plant - Gordon, S. A.
EFFECTS, Space biology, Weightlessness - Roman, James A.
EFFECT, Space ships, Radiation - Gyurdzhian, A. A.
EMBRYOLOGY, Weightlessness, Radiation - Neifakh, A.
ENVIRONMENTAL Design, Sterilization - Comunizis, Marcus G.
ENTROPY, Photosynthesis - Gamow, George
ENVIRONMENT, Aerospace medicine - Kennedy, Robert S.
ENVIRONMENT, Acceleration, Weightlessness - Chambers, Randall M.
ENVIRONMENT, Acceleration Weightlessness - Coburn, K. R.
ENVIRONMENT, Aerospace medicine - Kennedy, Robert S.
ENVIRONMENT, Aerospace medicine, Aerometeorism, Semicircular canals,
 Gravity, Psychology, Physiology, Senses, Monkey, Space flight -
 Graybill, Ashton
ENVIRONMENT, Animal studies, Man - Beischer, Dietrich E.
ENVIRONMENT, Animal studies, Organism - Sherping F.
ENVIRONMENT, Antibody, Adaptation - Northey, W. T.
ENVIRONMENT, Canal sickness - Sheffey, P. L.
ENVIRONMENT, Canal sickness - Semicircular canal - Graybiel, Ashton
ENVIRONMENT, Canal sickness, Semicircular canal, Acceleration - Guedry,
 Fred E., Jr.
ENVIRONMENT, Closee ecological system - Bates, Jack H.
ENVIRONMENT, Closed ecological system - Ingram, William T.
ENVIRONMENT, Closed ecological system - Ross, Malcolm D.
ENVIRONMENT, Closed ecological system, Respiration, Bioengineering,
 Monkey, Gravity, Acceleration - Pinc, Bruce W.

ENVIRONMENT, Gas Exchange - Strumza, M. V.
ENVIRONMENT, Growth, Microorganisms - Silver, Samuel
ENVIRONMENT, Heart, Acceleration, Physiology - Steiner, Sheldon H.
ENVIRONMENT, Human, Performance - Teichner, W. H.
ENVIRONMENT, Instruments - Hoover, Geroge W.
ENVIRONMENT, Life Support system - Wilson, R. B.
ENVIRONMENT, Life support, Space flight - Gurobskii, N. N.
ENVIRONMENT, Life support, Space flight - Gerd, M. A.
ENVIRONMENT, Metabolic wastes - Santa, Maria Lj.
ENVIRONMENT, Metabolism, Bioinstrumentation, Closed ecological system,
 Algae, Culture - Brown, Allan H.
ENVIRONMENT, Microorganisms, Spaces, Effects, Spacecraft sterilization -
 Keller, Wayne H.
ENVIRONMENT, Mouse, Virus - Marcus, S.
ENVIRONMENT, Mouse, Virus - Miya F.
ENVIRONMENT, Mouse, Virus - Phelps, L. J.
ENVIRONMENT, Mouse, Virus - Spencer, L.
ENVIRONMENT, Pathology, Aerospace medicine - Goodall, McC.
ENVIRONMENT, Physiology, Animal studies - Rohles, Frederick, Jr.
ENVIRONMENT, Physiology, Psychology - Graybiel, Ashton
ENVIRONMENT, Physiology, Respiration - Nixon, Charles W.
ENVIRONMENT, Physiology, Weightlessness - Beckman, E. L.
ENVIRONMENT, Plant, Closed ecological system - Golueke, Clarence G.
ENVIRONMENT, Radiation, Space Hazards - Maqsood, M.
ENVIRONMENT, Radiation - Newell, Homer E.
ENVIRONMENT, Radiation, Space flight - Mueller, Donald D.
ENVIRONMENT, Radiation, Space flight - Simons, John C.
ENVIRONMENT, Radiation, Space flight - Vann Allen, James A.
ENVIRONMENT, Radiation, Tissue - Schaefer, Hermann J.
ENVIRONMENT, Rats, Respiration, Pharmacology - Evonuk, Eugene
ENVIRONMENT, Respiration, Gas exchanges, Oxygen, Atmosphere control -
 Bovard, Robert M.
ENVIRONMENT, Space cabin - Welch, B. E.
ENVIRONMENT, Space capsule, Exobiology, Closed ecological system - Genin, A.M.
ENVIRONMENT, Space capsule - Gazeiko, O. G.
ENVIRONMENT, Space capsule - Sergeyev, N. P.
ENVIRONMENT, Space capsule, Cell, Physiology, G-tolerance, Effects, Be-
 havior, Senses, Vision, Space environment, Zero-gravity, Ameba -
 McKinney, Ramon
ENVIRONMENT, Space capsule, Attitude control, Gravitation - Sohn, Robert L.
ENVIRONMENT, Space capsule, Closed ecological system - Shepelev, E. Ya.
ENVIRONMENT, Spacecraft, Atmosphere - Babinsky, Andrew D.
ENVIRONMENT, Space biology, Space medicine - Parin, V. V.
ENVIRONMENT, Space capsule - Genin, A. M.
ENVIRONMENT, Space capsule - Webster, H. W.
ENVIRONMENT, Space capsule, Animal studies - Stembridge, Vernie, A.
ENVIRONMENT, Space flight, Life support system - Stem, J. A.
ENVIRONMENT, Space flight, Life support system - Christensen, G. M.
ENVIRONMENT, Space flight, Life support system - Pilgrim, A. J.
ENVIRONMENT, Space program - Macklin, Martin
ENVIRONMENT, Suit - Cramer, Kenneth R.
ENVIRONMENT, Suit, Physiology - Wilson, Charles L.
ENVIRONMENT, Suit, Project Mercury - Burdick, R. L.

ENVIRONMENT, Suit, Project Mercury - Burns, Neal M.
ENVIRONMENT, Suit, Space program - Irvine, Thomas F., Jr.
ENVIRONMENT, Suit, Urine - Redden, Robert J.
ENVIRONMENT, Weightlessness - Wade, Jame E.
ENVIRONMENT, Weightlessness - Yukanov, E. M.
ENVIRONMENT, Weightlessness, Human - Gerathewohl, Siegfried J.
ENVIRONMENT, Weightlessness, Human - Graveline, Duane W.
ENVIRONMENT, Weightlessness, Physiology - Barnard, George W.
ENVIRONMENT, Weightlessness, Physiology - Benson, Victor G.
ENVIRONMENT, Weightlessness, Physiology - King, Barry G.
ENVIRONMENT, Weightlessness, Physiology, Psychobiology, Hypodynamics,
 Heart, Excretion - Graveline, Duane E.
ENVIRONMENT, Weightlessness, Space flight - Belleville, Richard E.
ENVIRONMENT, Weightlessness, Space flight - Augerson, Williams S.
ENVIRONMENT, Weightlessness, Space flight - Douglas, William K.
ENVIRONMENT, Weightlessness, Space flight - Henry, James P.
ENVIRONMENT, Weightlessness, Space flight - Johnston, Richard S.
ENVIRONMENT, Biology - Clark, R.
ENVIRONMENT, Biology - Clemente, C.
ENVIRONMENT, Biology - Costello, L.
ENVIRONMENT, Biology - Davidson, R.
ENVIRONMENT, Biology - Hollaender, Alexander
ENVIRONMENT, Biology - Havnanian, H.
ENVIRONMENT, Biology - Lyon, C.
ENVIRONMENT, Biology - Mack, P.
ENVIRONMENT, Biology - Montgomery, P.
ENVIRONMENT, Biology - Morrison, P.
ENVIRONMENT, Biology - Mozingo, H.
ENVIRONMENT, Biology - Robinson, S.
ENVIRONMENT, Biology - Scher, S.
ENVIRONMENT, Biology - Sharp, P.
ENVIRONMENT, Biology - Siegel, S.
ENVIRONMENT, Biology - Waggoner, P.
ENVIRONMENT, Biology, Exobiology - Sagan, C.
ENVIRONMENT, Biology, Radiation, Yeasts - Tobias, Cornelius A.
ENVIRONMENTAL Design, Sterilization, Exobiology - Comunizie, Marcus G.
ESCAPE, Biomedical evaluation - Blodgett, H. C.
ESCAPE, Biomedical evaluation - Brown, W. L.
ESCAPE, Biomedical evaluation - Gisler, D. B.
ESCAPE, Biomedical evaluation - Lamb, Lawrence E.
EXERCISE, Heart, Bioengineering - Butchenko, L. A.
EXERCISE, Pilot, Space flight - Korobkov, A. V.
EXOBIOLOGY - Allen, R.
EXOBIOLOGY - Berman, H.
EXOBIOLOGY - Biemann, K.
EXOBIOLOGY - Bitterly, J.
EXOBIOLOGY - Blei, I.
EXOBIOLOGY - Blois, M.
EXOBIOLOGY - Elberg, S.
EXOBIOLOGY - Harada, Kaorn
EXOBIOLOGY - Huang, Su-Shu
EXOBIOLOGY - Imshenytetskiy, A. A.

EXOBIOLOGY - Kaplin, I.
EXOBIOLOGY - Kaplan, N.
EXOBIOLOGY - Kay, R.
EXOBIOLOGY - Kniper, G.
EXOBIOLOGY - Levin, G.
EXOBIOLOGY - Lowe, C.
EXOBIOLOGY - Meinschein, W.
EXOBIOLOGY - Morowitz, H.
EXOBIOLOGY - Nagy, B.
EXOBIOLOGY - Oro, J.
EXOBIOLOGY - Pattee, H.
EXOBIOLOGY - Stevenson, D.
EXOBIOLOGY - Szutka, A.
EXOBIOLOGY - Thorogood, E.
EXOBIOLOGY - Urey, H.
EXOBIOLOGY - Walwick, E.
EXOBIOLOGY - Weaver, H.
EXOBIOLOGY - Whipple, F.
EXOBIOLOGY - Wilska, A.
EXOBIOLOGY - Wolken, J.
EXOBIOLOGY, Closed ecological system, Space flight - Phillips, J. N.
EXOBIOLOGY, Extraterrestrial life - Lederberg, Joshua
EXOBIOLOGY, Extraterrestrial life - Roberts, Thomas L.
EXOBIOLOGY, Extraterrestrial life - Schindler, Charles A.
EXOBIOLOGY, Extraterrestrial life - Vaughn, Susan K.
EXOBIOLOGY, Extraterrestrial life - Vishniac, Wolf
EXOBIOLOGY, Extraterrestrial life - Wynne, E. Staten
EXOBIOLOGY, Extraterrestrial life, Metabolism, Algae - Calvin, Melvin
EXOBIOLOGY, Genetics, Radiation - Muller, Hermann J.
EXOBIOLOGY, Mars, Plants - Ehrlich, Richard
EXOBIOLOGY, Mars, Plant - Fulton, John D.
EXOBIOLOGY, Mars, Plant - Gowdy, Betty
EXOBIOLOGY, Mars, Plants, Environmental biology - Hawrylegicz, Ervin
EXOBIOLOGY, Meterorites, Moon - Anders, Edward
EXOBIOLOGY, Microorganisms - Greene, V. W.
EXOBIOLOGY, Planets, Organisms - Dollfus, Andowin
EXOBIOLOGY, Space, Extraterrestrial Life, Biosatellite, Bacteria, Exobiology, Mars simulation - Young, Richard S.
EXOBIOLOGY, Space exploration - Grossenbacher, R.
EXOBIOLOGY, Sterilization of spacecraft, Microorganisms, Spares - Imshenetskiy, A. A.
EXPOSURE, Gaseous environment, Human - Hiatt, Edwin P.
EXTRATERRESTRIAL Atmos, Pulmonary function - Bartlett, R. G.
EXTRATERRESTRIAL Atmosphere, Human, Physiology - Phillips, N. E.
EXTRATERRESTRIAL Conditions, Space environment - Beischer, Dietrich E.
EXTRATERRESTRIAL Environment, Growth, Algae - Enrligh, Richard
EXTRATERRESTRIAL Life -
EXTRATERRESTRIAL Life - Hagen, Charles A.
EXTRATERRESTRIAL Life - Shapley, H.
EXTRATERRESTRIAL Life, Exobiology - Schindler, Charles A.
EXTRATERRESTRIAL Life, Exobiology - Vaughn, Susan K.
EXTRATERRESTRIAL Life, Exobiology - Vishniac, Wolf
EXTRATERRESTRIAL Life, Exobiology - Wynne, E. Staten

EXTRATERRESTRIAL Life, Exobiology - Calvin, Melvin
EXTRATERRESTRIAL Life, Exobiology - Lederberg, Joshua
EXTRATERRESTRIAL Life, Exobiology - Roberts, Thomas L.
EXTRATERRESTRIAL Life, Exobiology, Space - Young, Richard S.
EXTRATERRESTRIAL Life, Mars, Exobiology - Briggs, Michael H.
EXTRATERRESTRIAL Life, Radiation - Buettner, K.
EXTRATERRESTRIAL Life, Solar system - Berger, Rainer
EXTRATERRESTRIAL Life, Spaceships, Microorganisms - Cardaro, Joseph T.
EYE - Cleary, Stephen F.
EYE - Eisenbud, Merrie
EYE - Pasternack, Bernard
EYE - Schmidt, Herbert
EYE - Zaret, Milton M.
EYE, Bioengineering - Byford, G. H.
EYE, Environment - Mowbray, G. H.
EYE, Environment - Sen, Tapas K.
EYE, Human, Senses - Ritter, Oskar L.
EYE, Space flight, Senses - Strughold, Hubertus
EYE, Space flight, Senses - Gray, R. F.
EYE, Vision, Senses - Warren, B. H.
EYES, Vision, Senses - Miller, Earl Fred
EYE, Vision, Senses - Roman, J. A.

FECES, Space flight, Physiology - Wick, Emily L.
FECES, Space flight, Physiology - Goldblith, Samuel A.
FEEDING, Food, Physiology - Welbourn, Jerry L.
FEEDING, Space medicine, Space environment - Kas'yan, I.
FEEDING, Space medicine, Space environment - Golikov, A.
FEEDING, Space, Physiology - Finkelstein, Beatrice
FOOD, Algae - Boiko, N. N.
FOODS, Algae, Chlorella - Lubitz, Joseph A.
FOOD, Algae, Sterilization - Vanderveen, John E.
FOOD, Animal studies, Algae - McDaniel, R. H.
FOOD, Animal studies, Algae - Middlebrook, J. B.
FOOD, Animal studies, Algae - Leveille, G. A.
FOOD, Animal studies, Algae - Bowman, R. O.
FOODS, Astronauts, Space travel, Nutrition - Tello, Luis Rodolfo
FOOD and OXYGEN, Monkeys, Physiologic responses - Barr, Norman Lee
FOOD, Closed ecological system, Bioengineering, Capsule - Bowman, H. J.
FOOD, Closed ecological system, Nutrition - Wick, Emily L.
FOOD, Closed ecological system, Nutrition - Goldblith, Samuel A.
FOOD, Life support system, Space flight - Enebo, Lenart
FOOD, Nutrition, Closed ecology - Senter, R. J.
FOOD, Physiology, Feeding - Welbourn, Jerry L.
FOOD, Physiology, Space crew - Finkelstein, Beatrice
FOOD, Plant, Fungi - Gray, William D.
FOOD, Radiation, Biochemistry - Kas'yan, I. I.
FOOD, Radiation, Biochemistry - Metlitskii, L. V.
FOOD, Space capsule - Roth, Norman G.
FOOD, Space capsule - Wheaton, Robert B.
FOOD, Space flight, Nutrition - Ushakov, A. S.
FOOD, Space flight, Nutrition - Bychkov, V. P.
FOOD, Space flight, Physiology - Viitanen, V. K.
FOOD, Space flight, Physiology - Crawford, D. C.
FOOD, Space flight, Physiology - Brown, D. L.
FOOD, Space flight, Physiology - Lachance, Paul A.
FUNGI, Food, Plant - Gray, William D.

GAS Exchange, Acceleration, Blood - Kiselev, A. A.
GAS Exchange Bioengineering, Human - Muxworthy, J.
GAS Exchange, Environment, Respiration - Kallfelz, I.
GAS Exchange, Physiology, Mouse, Closed ecology, Bioengineering - Breslav, I. S.
GAS Exchanger, Algae, Physiology - Benoit, R. J.
GAS Exchangers, Algae, Physiology - Kok, B.
GAS Exchanger, Algae, Physiology - Krall, A. R.
GAS Exchanger, Algae, Photosynthesis - Myers, Jack
GAS Exchanger, Algae, Photosynthesis - Bialecki, A.
GAS Exchanger, Environment, Respiration - Bovard, Robert M.
GAS Exchange, Human, Skin - Petrun', I. M.
GAS Exchanger, Photosynthesis, Physiology - Fulton, John D.
GAS Exchanger, Photosynthesis, Physiology - Gafford, Robert D.
GAS Exchanger, Plant, Photosynthesis - Cordiero, R. R.
GAS Exchanger, Plant, Photosynthesis - Dodson, J. L.
GAS Exchanger, Plant, Photosynthesis - Nickerson, R. J.
GAS Exchanger, Plant, Photosynthesis - Rabe, A. E.
GAS Exchanger, Plant, Photosynthesis - Speziali, V.A.
GAS Exchanger, Plant, Photosynthesis - Wallman, H.
GAS Exchanger, Respiration - Konikoff, J. J.
GASEOUS Environment, Closed ecology - Kinsey, Jack L.
GASEOUS Environment, Closed ecology - Wissel, Joseph W.
GASEOUS Environment, Human, Exposure - Hiatt, Edwin P.
GEMINI, Space environment, Manned - Brandon, H. J.
GEMINI, Space environment, Manned - Sawamura, Lucky
GEMINI, Space flight - Watkins, Harold D.
GENETICS - Borges, Wayne H.
GENETICS - Brodsky, Allen
GENETICS - Kim, Jip
GENETICS - Miller, Charles E.
GENETICS - Altitude, Space - Kamalyan, J. Sh.
GENETICS, Drosophila, Space flight, Radiation, Effects - Dubinin, N.P.
GENETICS, Drosophila, Space flight - Kanovets, O. L.
GENETICS, Effect, Radiation - Rapoport, I. A.
GENETICS, Effect, Radiation - Miller, A. V.
GENETICS, Effects, Radiation - Nuzhdin, N. I.
GENETICS, Effects, Radiation - Petrova, D. N.
GENETICS, Effects, Radiation - Shapiro, N. I.
GENETICS, Effects, Radiation, Monkeys, Mice - Tinyakov, G. S.
GENETICS, Human, Radiation - Rapoport, I. A.
GENETICS, Human, Radiation - Yarmonenko, S. P.
GENETICS, Mice, Radiation - Cole, L. G.
GENETICS, Mice, Radiation - Nowell, P. C.
GENETICS, Radiation - Debuk, A. Gib
GENETICS, Radiation - Eugster, Jakob
GENETICS, Radiation - Mott-Smith, L. M.
GENETICS, Radiation, Effects - Kerkis, Yu. Ya.
GENETICS, Radiation, Effects - Lebedeva, L. I.
GENETICS, Radiation, Effects, Biosatellite - Debusk, A. G.
GENETICS, Rat, Space cabin - Phillips, J. M.
GENETICS, Space - DeBusk, A. Gib.
GENETICS, Space flight, Plants - Eges, N. S.

GRAVITATION, Effects, Physiology - Cherepakhin, M. A.
GRAVITATION, Effects, Physiology - Kas'yan, I. I.
GRAVITATION, Effects, Physiology - Yukanov, Ye. M.
GRAVITATION, Manned, Heat regulation, Temperature control, Dynamic flight simulation - Hardy, James D.
GRAVITATION, Physiology, Blood, Weightlessness, Brain, Biotelemetry, Space flight - Moskalenko, Yu. Ye.
GRAVITY - Kornhauser, M.
GRAVITY, Aerometeorism, Simicircular canals - Graybiel, Ashton N.
GRAVITY, Acceleration - Clark, Carl C.
GRAVITY, Acceleration, Space flight - Yazdovskii, V. I.
GRAVITY, Acceleration, Space flight - Parin, V. V.
GRAVITY, Acceleration, Space flight - Gazeiko, O. G.
GRAVITY, Behavior, Physiology - Smith, Arthur H.
GRAVITY, Growth, Plants - Taufman, W.
GRAVITY, Manned station - Kornhauser, M.
GRAVITY, Nervous system, Ear - Bronstein, A. A.
GRAVITY, Nervous system, Ear, Weightlessness - Titova, L. K.
GRAVITY, Organ, Growth, Hamsters, G-tolerance - Wunder, Charles C.
GRAVITY, Senses, Vision - Kama, William N.
GRAVITY, Senses, Vision - Pigg, Leroy D.
GRAVITY, Weightlessness, Behavior, Senses - Brown, Edward L.
GRAVITY, Weightlessness, Physiology - Timakov, V.
GROWTH, Algae, Extraterrestrial environment - Enrigh, Richard
GROWTH, Blood, Rat - Johnson, Paul K.
GROWTH, Gravity, Organ - Wunder, Charles C.
GROWTH, Microorganisms, Environment - Silver, Samuel
GROWTH, Physiology, Closed ecology - Sorokin, Constantine
GROWTH, Plant light - Salisbury, Frank B.
GROWTH, Radiation, Mouse, Biorhythms - Kosichenko, L. P.
GROWTH, Rat, Blood - Feigen, George A.
G-TOLERANCE, Aerospace medicine, Hamster - Briney, Stanley R.
G-TOLERANCE, Aerospace medicine, Hamsters - Wunder, Charles C.
G-TOLERANCE, Acceleration, Rat - Frazer, J. W.
GUINEA Pig, Neurology - Morrell, Roger M.

HAMSTER, G-Tolerance, Aerospace medicine - Briney, Stanley R.
HAMSTERS, G-Tolerance, Aerospace medicine - Wunder, Charles C.
HAZARDS in Space, Biosatellites - Strughold, Hubertus
HAZARDS, Physiology, Radiation - Schaefer, H. J.
HAZARDS, Space flight, Radiation - Schaefer, Hermann, J.
HEAT Energy, Eyes - Najac, Harold W.
HEART, Acceleration - Headley, R. N.
HEART, Acceleration - Holden, George R.
HEART, Acceleration - Smith, Joseph R., Jr.
HEART, Acceleration, Bioengineering - Smedal, Harold A.
HEART, Acceleration, Human Physiology - Sutterer, William F.
HEART, Acceleration, Physiology - Wood, Earl H.
HEART, Acceleration, Physiology - Steiner, S. H.
HEART, Acceleration, Physiology - Hershgold, Edward J.
HEART, Acceleration, Physiology - Lindberg, Evan F.
HEART, Acceleration, Physiology - Marshall, Hiram W.
HEART, Acceleration, Physiology - McGuire, Terence F.
HEART, Aerospace medicine, Acceleration - Cherniack, Neil S.
HEART, Aerospace medicine, Acceleration - Hyde, Alvin S.
HEART, Aerospace medicine, Acceleration - Mueller, Gustave C. E.
HEART, Aerospace medicine, Acceleration - Steiner, Sheldon H.
HEART, Aerospace medicine, Acceleration - Zechman, F. W., Jr.
HEART, Aerospace medicine, Physiology - Gray, R. Flanagan
HEART, Bioengineering, Exercise - Butchenko, L. A.
HEART, Bioengineering, Problems - Degtyar', G. Ya.
HEART, Bioengineering, Problems - Starobinets, K. M.
HEART, Bioengineering, Problems - Timashuk, K. F.
HEART, Bioengineering, Problems, Physiology - Fogel'son, L. I.
HEART, Heat regulation, Gas exchange - Kim, T. P. K.
HEART, Heat regulation, Gas exchange - Luft - N. C.
HEART, Human, Biotelemetry - Maksimov, D. G.
HEART, Human, Biotelemetry - Zazykin, K. P.
HEART, Human, Space environment - Beischer, Dietrich E.
HEART, Physiology - Fogel'son, L. I.
HEART, Physiology, Aerospace medicine - Webb, Martin G., Jr.
HEART, Physiology, Animal studies - Angelakos, Evangelos T.
HEART, Physiology, Blood - Ley, Glen D.
HEART, Physiology, Blood - Maddock, Gene E.
HEART, Physiology, Blood - Ross, Joseph C.
HEART, Pilots, Physiology - Jaspero, G.
HEART, Problems, Bioengineering - Akuliniohev, I. T.
HEART, Radiation, Space - Shellabarger, C. J.
HEART, Weightlessness - Burch, G. E.
HEART Rate, Weightlessness - Gerathewohl, Siegfried, J.
HEART, Space slight, Human physiology - Bartlett, R. G.
HEART, Waste, Urine - Gauer, O. H.
HEART, Weightlessness, Space medicine - Hammer, Lois R.
HEAT Energy, Eyes - Cooper, Blossom
HEAT Energy, Eyes - Jacobson, Jerry Hart
HEAT Energy, Eyes - Kohtiao, August
HEAT Regulation - Beehler, C. C.
HEAT Regulation - Cockett, A. T. K.
HEAT Regulation - Lee, J. M.

HEAT, Regulation, Body temperature - Pratt, A. W.
HEAT Regulation, Brain, Dog, Respiration, Circulation - Brendel, W.
HEAT Regulation, Human, Heat - Karvonan, M. J.
HISTOLOGY, Space flight - Dolgina, M. I.
HISTOLOGY, Space flight - Nikitina, O. P.
HISTOLOGY, Space flight - Novikov, S. N.
HISTOLOGY, Space flight - Shrayber, M. I.
HISTOLOGY, Space flight - Sorokina, N. N.
HISTOLOGY, Space flight - Sushkov, N. G.
HISTOLOGY, Space flight - Uglyumov, Ye. P.
HISTOLOGY, Space flight - Vishnevskiy, A. A.
HISTOLOGY, Space flight - Zakharov, A. F.
HISTOLOGY, Space flight, Microbiology - Kapichnikov, M. M.
HISTOLOGY, Space flight, Microbiology - Podopielov, I. I.
HUMAN - Ryan, J. J.
HUMAN, Acceleration - Leverett, S.
HUMAN, Acceleration, Space medicine - Bates, George
HUMAN, Aerospace medicine, Acceleration - Mirolyubov, G. P.
HUMAN, Astronauts, Space flight - Chailler, R. F.
HUMAN, Astronauts, Space flight - Steinberg, Alvin
HUMAN, Behavior, Senses - Hagen, Douglas
HUMAN, Behavior, Senses - Cramer, Earl H.
HUMAN, Behavior, Senses - Monroe, John T.
HUMAN, Bibliography, Animal studies - Fregly, A. R.
HUMAN, Bibliography, Motion sickness - Buckhout, Robert
HUMAN, Bioengineering, Aerospace medicine - Allen, Thomas H.
HUMAN, Bioengineering, Aerospace medicine - Cermann, Rolf R.
HUMAN, Bioengineering, Closed ecology - Clark, Dale
HUMAN, Bioengineering, Space capsule - Smith, Bertram J.
HUMAN, Bioengineering, Space capsule - Lawton, Richard W.
HUMAN, Biology, Space flight - Lyman, John
HUMAN, Capabilities, Space environment - Preston, Richard J.
HUMAN, Capsule, Closed ecology - Davenport, E. W.
HUMAN, Closed ecological system, Respiration - Bambenek, R. A.
HUMAN, Closed ecological system, Respiration - Kubiak, E. J.
HUMAN, Closed ecological system, Respiration - Rest, J.
HUMAN, Closed ecological system, Survival - Zarriello, J.
HUMAN, Ecology, Space - Mangelsdorf, J.
HUMAN, Environment, Behavior - Dietz, Harold W.
HUMAN, Environment, Weightlessness - Gerathewohl, Siegfried, J.
HUMAN, Environment, Weightlessness - Graveline, Duane W.
HUMAN, Exposure, Gaseous environment - Hiatt, Edwin P.
HUMAN, Gravitation - DuBois, J.
HUMAN, Gravitation - Omoto, C.
HUMAN, Gravitation - Santschi, W. R.
HUMAN, Isolation, Aerospace medicine - Ormiston, Donald W.
HUMAN, Impact, Vibration - von Gierke, Henning E.
HUMAN, Impact, Vibration - Goldman, David E.
HUMAN, Mammals, Gravity, Space flight - Mallan, L.
HUMAN, Metabolism, Heat regulation, Environment - Bolstad, Atle
HUMAN, Metabolism, Heat regulation, Environment - Elsner, Robert W.
HUMAN, Medicine, Space flight - Crossfield, Scott, A.

HUMAN, Medicine, Space flight - Lovelace, W. Randolph II
HUMAN, Monkey, Physiology - Edwards, William E.
HUMAN Performance, Physiological functions - Carlson, Loren D.
HUMAN, Physiology, Acceleration - Kotovskaya, A. R.
HUMAN, Physiology, Acceleration - Lobashkov, S. I.
HUMAN, Physiology, Acceleration - Simpura, S. F.
HUMAN, Physiology, Acceleration - Suvorov, P. M.
HUMAN, Physiology, Acceleration - Khlebnikov, G. F.
HUMAN, Physiology, Heart, Acceleration - Sutterer, William F.
HUMAN Physiology, Heart, Space flight - Bartlett, R. G.
HUMAN, Physiology, Space flight - Benzinger, Theodor H.
HUMAN, Psychology, Pharmacology, Sense - Levy, Leonard
HUMAN, Radiation, Genetics - Rapoport, I. A.
HUMAN, Radiation, Genetics - Yarmonenko, S. P.
HUMAN, Radiation, Genetics - Avrunina, G.A.
HUMAN, Respiration, Brain - Marshak, M. Ye.
HUMAN, Senses - Robinson, Gordon H.
HUMAN, Senses - Turner, John J.
HUMAN, Senses, Aerospace medicine - Woellner, Richard C.
HUMAN, Senses, Aerospace medicine - Graybiel, Ashton
HUMAN, Senses, Eye - Ritter, Oskar L.
HUMAN, Senses, Psychology - Ban, Thomas
HUMAN, Senses, Psychology - Ruff, George E.
HUMAN, Senses, Space flight - Hauty, George T.
HUMAN, Skin, Gas exchange - Petrun', I. M.
HUMAN, Space capsule - Gavurin, Edward I.
HUMAN, Space capsule - Ogle, D.
HUMAN, Space capsule, Closed ecology - Congdon, S. P.
HUMAN, Space capsule, Closed ecology - Pierce, B. F.
HUMAN, Space capsule, Space program - Ulvedal, Frode
HUMAN, Space capsule, Space program - Welch, B. E.
HUMAN, Space capsule, Space program - Hartman, Bryce O.
HUMAN, Space capsule, Space program - McKenzie, Richard E.
HUMAN, Space capsule, Space program - Morgan, Thomas E.
HUMAN, Space environment, Bibliography - Banghart, Frank W.
HUMAN, Space environment, Bibliography - Pattishall, Evan G.
HUMAN, Space environment, Gas exchange, Acceleration - Critz, George T.
HUMAN, Space environment, Gas exchange, Acceleration - Dery, Donald W.
HUMAN, Space environment, Gas exchange, Acceleration - Handler, Edwin
HUMAN, Space environment, Gas exchange, Acceleration - Highly, Francis M., Jr.
HUMAN, Space environment, Gas exchange, Acceleration - Mammen, Robert E.
HUMAN, Space environment, Heart - Beischer, Dietrich E.
HUMAN, Space environment, Life support system - Hauty, George T.
HUMAN, Space environment, Space flight - Blanchard, W.
HUMAN, Space environment, Space flight, Acceleration - Bondurant, S.
HUMAN, Space environment, Space flight, Acceleration - Clark, N.
HUMAN, Space environment, Space flight - Hyatt, E.
HUMAN, Space environment, Space flight - Miller, H.
HUMAN, Space flight - Berry, Charles A.
HUMAN, Space flight - Bushnell, David
HUMAN, Space flight - Hanrahan, James Stephen
HUMAN, Space flight, Acceleration - Stapp, John Paul
HUMAN, Space flight, Aerospace medicine - Sells, S. B.

HUMAN, Space flight, Aerospace medicine - Caidin, Grance
HUMAN, Space flight, Acceleration - Stapp, John Paul
HUMAN, Space flight, Pathology - Pletcher, Kenneth E.
HUMAN, Space flight, Physiology - Volynkin, Yu. M.
HUMAN, Space flight, Physiology - Yazdovskiy, V. I.
HUMAN, Space flight, Physiology, Radiation, Dogs, Environment, Space medicine, Gravity, Acceleration, Biotelemetry, Cosmonauts, Training Selection, Weightlessness - Parin, Vasilu Vasil'evich
HUMAN, Space flight, Space environment - Charakhchyan, A. N.
HUMAN, Space flight, Space environment - Charakhchyan, T. N.
HUMAN, Space flight, Space environment - Tulinov, V. F.
HUMAN, Space program, Psychology - Grether, Walter F.
HUMAN, Tissue, Space flight - Castro, Anthony E.
HUMAN, Tissue, Space flight - More, Llewellyn H.
HUMAN, Tolerance, Space medicine - Simons, D. G.
HUMAN, Vibration, Aerospace medicine - Linder, Gerald S.
HUMAN, Vibration, Respiration - Ashe, W. F.
HUMAN, Vibration, Respiration - Hoover, George N.
HUMAN, Waste, Environment - Pipes, W. O.
HUMAN, Waste, Environment - Quon, J. E.
HUMAN, Weightlessness, Behavior - Zhuravlev, B. A.
HUMAN, Weightlessness, Physiology - Hanna, Thomad D.
HYGIENE, Khlopin, G. V.
HYGIENE, Problems - Marshak, M. Ye.
HYGIENE, Space flight, Physiology - Spasskiy, V. A.
HYPODYNAMICS, Psychobiology, Physiology - Graveline, Duane E.

IMPACT - Managan, R. F.
IMPACT - Snyder, Richard G.
IMPACT, Acceleration, Physiology - Gonzulov, S. A.
IMPACT, Aerospace medicine, Mouse - Richmond, Donald R.
IMPACT, Aerospace medicine, Mouse - White, Clayton S.
IMPACT, Animal studies, Mouse - Bowen, Gerald I.
IMPACT, Life support system, Acceleration - Boyce, William C.
IMPACT, Life support system, Acceleration - Freeman, Howard E.
IMPACT, Life support system, Acceleration - Gell, C. F.
IMPACT, Space medicine, Acceleration - Headley, Robert N.
IMPACT, Space medicine, Acceleration - Lokatos, George
IMPACT, Vibration, Human - Goldman, David E.
IMPACT, Vibration, Human - von Gierke, Hennign E.
INFORMATION Exchange, Bioastronautics - Jacobius, A. J.
INFORMATION Exchange, Bioastronautics - Seeley, Sam F.
INSECTS, Closed ecological system, Pressure, Respiration, Exobiology -
Mikhail'chenko, I. A.
INSECTS, Space flight, Animal studies - Glembotskiy, Ya. I.
INSECTS, Space flight, Animal studies - Parfenov, G. P.
INSTRUMENTATION, Life sciences, Radiation - Vaggner, James N.
INSTRUMENTATION, Psychology - Blockley, W. V.
INSTRUMENTATION, Psychology, Acceleration - Freedman, Toby
INSTRUMENTATION, Telemetry - Beaupre, M. A.
INSTRUMENTATION, Telemetry - Cooper, W. N.
INSTRUMENTATION, Telemetry - Ettleson, B. L.
INSTRUMENTATION, Telemetry - Throssell, L. G.
INSTRUMENTS, Environment - Hoover, George W.
IRRADIATION, Metabolism, Space medicine - Clark, Robert T.
ISOLATION - Strollo, M.
ISOLATION, Aerospace medicine, Human - Ormiston, Donald W.
ISOLATION, Space capsule, Physiology - Hanna, Thomas D.

LIAISON, Bioastronautics - Randt, Clark T.
LIAISON, Bioastronautics - Phoebus, C. P.
LIAISON, Bioastronautics - Nottage, H. B.
LIAISON, Bioastronautics - Durant, Frederick C., III
LIAISON, Bioastronautics - Comming, L. G.
LIAISON, Bioastronautics - Barron, Charles I.
LIAISON, Bioastronautics - Arthur, George R.
LIAISON, Bioastronautics - White Stanley
LIAISON, Bioastronautics - Smith, Dale G.
LIAISON, Bioastronautics - Small, Arnold
LIFE Sciences - Green, F. H.
LIFE Sciences - Rinfret, A. P.
LIFE Sciences, Aerospace medicine, Bioastronautics, Liaison - Randt, Clark T.
LIFE Sciences, Bioastronautics - Clemedson, Carl-Johan
LIFE Sciences, Bioengineering - Rosen, Robert
LIFE Science, Microorganisms, Metabolism - Shaposhnikov, V. N.
LIFE Sciences, Radiation - Schambla, Philop E.
LIFE Sciences, Radiation - Deering, R. A.
LIFE Sciences, Radiation - Hutchinson, Franklin
LIFE Sciences, Radiation, Instrumentation - Waggoner, James N.
LIFE Sciences, Respiration - Biget, P. L.
LIFE Sciences, Space - Oparin, A. I.
LIFE Sciences, Space, Space program, Exobiology, Mars - Horowitz, Norman H.
LIFE Sciences, Space flight, Space program - Sisakyan, N. M.
LIFE Sciences, Space flight - Pirie, N. W.
LIFE Science, Space program, Bioengineering - Bowen, I. G.
LIFE Science, Space program, Bioengineering - Chiffelle, T. L.
LIFE Science, Space program, Bioengineering - Goldizen, V. C.
LIFE Science, Space program, Bioengineering - Richmond, D. R.
LIFE Support - Popma, D. C.
LIFE Support, Artificial Earth satellite, Animal studies, Physiology,
Space flight - Chernov, Vasili Mikhailevich
LIFE Support, Space flight - Davis, Henry
LIFE Support, Space flight - Mazzovsky, V. I.
LIFE Support, Space flight - Novosad, Robert S.
LIFE Support, Space flight - Sisakian, N. M.
LIFE Support Systems - no author
LIFE Support System - Ames, Robert K.
LIFE Support System - Gaume, J. G.
LIFE Support System, Acceleration, Impact - Freeman, Howard E.
LIFE Support System, Acceleration, Impact - Gell, C. F.
LIFE Support System, Acceleration, Impact - Boyce, William C.
LIFE Support Systems, Aerospace medical problems, Space flight, Space
program - Burriss, W. L.
LIFE Support Systems, Aerospace medical problems, Space flight, Space
program - Mason, J. L.
LIFE Support System, Aerospace medicine - Humphreys, J. W., Jr.
LIFE Support System, Aerospace medicine - Kydd, George H.
LIFE Support System, Aerospace medicine - Cappel, Klaus L.
LIFE Support System, Algae - Bowman, Russel O.
LIFE Support Systems, Bioengineering - Zeff, J. D.
LIFE Support System, Bioengineering - Bambenek, Robert A.
LIFE Support System, Bioengineering - Bosee, Roland A.

LIFE Support Systems, Bioengineering - Hayes, Edward L.
LIFE Support System, Closed ecological system, Bioengineering - Buylov, B. G.
LIFE Support Systems, Closed ecological systems, Bioengineering -
Gryuntal', R. G.
LIFE Support System, Closed ecological system, Plant - Wilks, Syrrel
LIFE Support System, Closed ecological system, Space capsule - Bosee,
Roland A.
LIFE Support System, Closed ecology - Keating, Donald A.
LIFE Support, Closed ecology - Mickelson, William F.
LIFE Support System, Environment - Wilson, R. B.
LIFE Support System, Environment, Space flight - Stem, J. A.
LIFE Support System, Environment, Space flight - Christensen, G. M.
LIFE Support System, Environment, Space flight - Pilgrim, A. J.
LIFE Support System, Human, Space environment - Hauty, George T.
LIFE Support Systems, Physiology, Senses - Allen, Patricia S.
LIFE Support Systems, Senses, Psychology - Bennett, Edward M.
LIFE Support Systems, Senses, Psychology - Kemler, Dorothy K.
LIFE Support System, Space environment, Senses, Psychiatry, Acceleration -
Hauty, George T.
LIFE Support System, Space flight, Requirements, Physiology, Behavior,
Respiration - Hall, A. L.
LIFE Support System, Space capsule, Mouse - Weisworm, Konrad
LIFE Support, Space flight, Environment - Gerd, M. A.
LIFE Support, Space flight, Environment -
LIFE Support System, Space flight, Food - Enebo, Lennart
LIGHT, Growth, Plant - Salisbury, Frank B.
LOGISTICS Aspects, Biomedical aspects - Ulvedal, Frode
LOGISTICS Aspects, Biomedical aspects, Space flight - Morgan, Thomas E., Jr.
LOGISTICS Aspects, Biomedical aspects, Capsule, Gas pressure, Respiration,
Physiology - Ulvedal, Frode
LUNGS, Physiology, Respiration - Bartlett, Roscoe G., Jr.

MAGNETIC Fields, CNS - Kholodov, Yu. A.
MAGNETIC Fields, CNS - Yanson, Z. A.
MAGNETIC Fields, Effects - Biggs, M. W.
MAGNETIC Fields, Effects - Boutell, H. M.
MAGNETIC Fields, Effects - Einsenlein, J. E.
MAGNETIC Field, Plants - Krylov, A. V.
MAGNETIC Field, Radiation - Osipov, Yu. A.
MAGNETIC Field, Tissue, Physiology - Capraro, V.
MAMMAL, Bioengineering, Circulatory system, Decompression - Elstorp, Lars
MAMMALS, Bicinstrumentation, Physiology - Jones, Hardin B.
MAMMALS, Blood, Physiology - Pace, Nello
MAMMAL, Body temperature, Ear, Circulatory system, Environment - Honda, N.
MAMMAL, Body temperature, Ear, Circulatory system, Environment - Judy, W. V.
MAMMALS, Brain, Radiation - Roppel, Richard M.
MAMMAL, Circulatory system, Decompression, Bioengineering - Petterson,
 Hjalmar
MAMMAL, Circulatory system, Decompression, Bioengineering - Sundquist,
 Anna-Britt
MAMMALS, Circulatory system, Physiology, Hibernation, Ground squirrels,
 Nervous system - Lyman, C. P.
MAMMAL, Neurology, Circulatory system, Environment, Brain - O'Brien, Regina C.
MAMMALS, Respiration, Physiology - Hall, F. G.
MAMMAL, Tissue, Radiation - Katzberg, Allan A.
MAN - Meister, D.
MAN, Environment, Animal studies - Beischer, Dietrich E.
MAN, Radiation, Space - Lifton, S. E.
MAN, Space - Caidin, Martin
MANNED - White, J. A.
MANNED, Space capsule, fuel - Trapp, Robert F.
MANNED, Space capsule, Metabolism - Wu, W. L. S.
MANNED, Space capsule, Metabolism - Yakut, M. M.
MANNED, Space capsules, Noise - Laurence, James C.
MANNED, Space exploration, Speech - Lambertsen, Christian J.
MANNED, Space Flight - Altukhov, G. V.
MANNED Space Flight - Belay, V. Ye.
MANNED, Space flight - Bristenden, M. C.
MANNED, Space flight - Burton, B. B.
MANNED Space Flight - Degtyarev, V. A.
MANNED Space Flight - Fomin, A. G.
MANNED Space Flight - Kaskan, I. I.
MANNED Space Flight - Krylov, Yu. V.
MANNED Space Flight - Kuettner, Joachim P.
MANNED Space Flight - Myasnikov, V. I.
MANNED Space Flight - Ordway, Frederick I. III
MANNED Space Flight - Sil'vestrov, M. M.
MANNED Space Flight - Stepansov, V. I.
MANNED Space Flight - Terent'yev, V. G.
MANNED Space Flight - Volovich, V. G.
MANNED Space Flight - Yegorov, A. D.
MANNED Space Flight, Life support system, Closed ecological systems, Bio-engineering, Space capsule, Environment - Seryapin, A. D.
MANNED Space Missions - Heinsheimer, T. F.
MANNED, Space station - Byers, Richard A.

MANNED Space Systems - Smith, T. D.
MARS, Bacteria, Exobiology - Ball, Robert J., Jr.
MARS, Exobiology - Bongers, Leonard H.
MARS, Plants, Exobiology - Hawrylegicz, Ervin
MARS, Plants, Exobiology - Gowdy, Betty
MARS, Plant, Exobiology - Fulton, John D.
MARS, Plants, Exobiology - Ehrlich, Richard
MARS, Radiation, Bacteria, Spores, Exobiology - Wynne, E. Staten
MARS, Space environment, Space exploration - Schilling, Gerhard F.
MEDICINE, Aerospace medicine - Connolly, John M.
MEDICINE, Bioengineering - Babskiy, Ye. B.
MEDICINE, Physiology - Quigley, J. P.
MEDICINE, Problems, Space - Benson, Otis O., Jr.
MEDICINE, Sense - Cheeseman, S. A.
MEDICINE, Sense - Combs, J. J.
MEDICINE, Sense - Green, H. C.
MEDICINE, Sense - Hammond, J.
MEDICINE, Space flight, Aerospace medicine - Schwichtenberg, A. H.
MEDICINE, Space flight, Human - Lovelace, W. Randolph II
MEDICINE, Space flight, Human - Crossfield, Scott A.
METABOLIC Wastes, Environment, Physiology - Santa-Maria, Louis J.
METABOLISM - Bassham, J. A.
METABOLISM - Holm-Hansen, O.
METABOLISM - Moses, U.
METABOLISM, Bacteria, Spaceflight - Harrish, N.
METABOLISM, Bacteria, Spaceflight - Kovistra, J.
METABOLISM, Bioengineering - Matov, V. V.
METABOLISM, Bioinstrumentation, Environment - Brown, Allan H.
METABOLISM, Bones - Marshall, John H.
METABOLISM, Burn sickness, Physiology - Gubler, Ye. V.
METABOLISM, Burn sickness, Physiology - Zimina, E. P.
METABOLISM, Rat, Animal studies, Tissue - Rogers, T. A.
METABOLISM, Respiration, Closed ecological system - Bursack, William W.
METABOLISM, Space medicine, Irradiation - Clark, Robert T.
METABOLISM, Space program, Physiology - Burns, Neal M.
METABOLISM, Space program, Physiology - Bosee, Roland A.
METABOLISM, Space program, Physiology - Santamaria, L. J.
METABOLISM, Weightlessness, Physiology - Neuman, William F.
METEORITES - Gales, G. G.
METEORITES, Exobiology - Anders, Edward
METEOROID Impacts, Aerospace medicine, Animal studies, Capsule, Impact,
Life support, Acceleration - Gell, Charles F.
MICROBIOLOGY, Space environment, Sanitary engineering, Animal studies,
Space flight, Physiology - Yakolev, V.
MICROBIOLOGY, Space flight - Buyko, Ye. A.
MICROBIOLOGY, Space flight - Chamova, K. G.
MICROBIOLOGY, Space flight - Fedorova, G. I.
MICROBIOLOGY, Space flight - Klimov, V. Yu.
MICROBIOLOGY, Space flight - Kop'yev, Ya. V.
MICROBIOLOGY, Space flight - Mayskiy, I. I.
MICROBIOLOGY, Space flight - Nefed'yeva, N. P.
MICROBIOLOGY, Space flight - Novikova, I. S.
MICROBIOLOGY, Space flight - Petrov, R. V.

MICROBIOLOGY, Space flight - Tribulev, G. P.
MICROBIOLOGY, Space flight - Vinogradova, I. N.
MICROBIOLOGY, Space flight, Radiation - Merkushkin, Yu. G.
MICROORGANISMS, Bacteria - Decker, H.
MICROORGANISMS, Bacteria - Portner, Dorothy M.
MICROORGANISMS, Bacteria, Sterilization of spacecraft - Hoffman, Robert K.
MICROORGANISMS, Biology, Radiation - Roberts, Thomas L.
MICROORGANISM, Cells, Spaceship - Zhukov-Verezhnikov, N. N.
MICROORGANISM, Cells, Spaceship - Mayskiy, I. M.
MICROORGANISM, Cells, Spaceship - Yazdovskiy, V. I.
MICROORGANISM, Cells, Spaceship - Pekhov, A. P.
MICROORGANISM, Cells, Spaceship - Gyurdzhian, A. A.
MICROORGANISM, Cells, Spaceship - Rybakov, N. I.
MICROORGANISM, Cells, Spaceships - Antipov, V. V.
MICROORGANISMS, Closed ecological system, Space flight - Ingram, William T.
MICROORGANISMS, Culture - Krauss, Robert W.
MICROORGANISMS, Culture, Chlorella, Metabolism, Algae - Krauss, Robert W.
MICROORGANISMS, Effects, Environment - Keller, Wayne H.
MICROORGANISMS, Environment, Growth - Silver, Samuel
MICROORGANISMS, Extraterrestrial life, Closed ecology - Davis, Norman S.
MICROORGANISMS, Extraterrestrial life, Closed ecology - Keller, Wayne H.
MICROORGANISMS, Extraterrestrial life, Closed ecology - Silverman, Gerald
MICROORGANISMS, Extraterrestrial life, Spaceships - Cardaro, Joseph T.
MICROORGANISM, Plant, Algae - Vladimirova, M. G.
MICROORGANISM, Plant, Algae - Semenenko, V. Ye.
MICROORGANISMS, Plant, Sterilization - Phillips, Charles R.
MICROORGANISMS, Space - Maiskii, I. N.
MICROORGANISMS, Space - Pekhov, A. P.
MICROORGANISMS, Space environment - Rogers, L. A.
MICROORGANISMS, Space flight, Radiation - Wynne, E. Statten
MICROORGANISMS, Space flight, Space biology - Gazenko, O. G.
MICROORGANISMS, Sterilization, Plant - Hoffman, Robert K.
MICROORGANISMS, Waste, Space capsule - Bogan, R. H.
MICROORGANISMS, Waste, Space capsule - Chapman, D. D.
MICROWAVES, Biological - Kamenskiy, Yu. I.
MICROWAVES, Biological - Levitina, N. A.
MICROWAVES, Biological - Presman, A. S.
MONKEY, Behavior - Brunson, Henry W.
MONKEY, Behavior - Carter, Vernon L.
MONKEY, Behavior - Prime, James R.
MONKEY, Bioengineering - Rogovenko, Ye. S.
MONKEY, Bioengineering - Sheykin, R. L.
MONKEYS, Canal sickness, Aerospace medicine - Meek, Joseph C.
MONKEY, Canal sickness, Chimpanzees - Riopelle, A. J.
MONKEY, Canal sickness, Champanzees - Beischer, D. E.
MONKEY-in-space - Decompression - Carter, Eart T.
MONKEYS, Physiologic responses, Food and oxygen, Acceleration, Gravity - Barr, Norman Lee
MONKEYS, Radiation - Pickering, John E.
MONKEY, Space flight - Holmes, R. H.
MONKEY, Space flight - McNinch, J. H.
MOON, Environment, Gravitation - Nordby, Frederick, J.
MOON, Space capsule, Manned, Space program - Hunter, Maxwell, W.

MOTION Sickness - Bard, P.
MOTION Sickness - Chinn, Herman I.
MOTION Sickness - Loftus, Joseph R.
MOTION Sickness - McMullen, J.
MOTION Sickness ; Acceleration - Johnson, Walter H.
MOTION Sickness , Acceleration - Taylor, B.
MOTION Sickness, Human, Bibliography - Buckhout, Robert
MOTION Sickness, Medicine - Smith, Paul K.
MOTION Sickness, Problem, Space medicine - Kopanov, V. I.
MOTION Sickness, Problem, Space medicine - Komendantov, G. L.
MOTION Sickness, Senses - Steele, Jack E.
MOTION Sickness, Weightlessness, Space medicine - Simons, J. C.
MOTION Sickness, Weightlessness, Space medicine - Kama, W.
MOTION Sickness, Weightlessness, Space program - von Beckh, Harold
MOUSE, Bacteria, Environment - Miraglia, G. J.
MOUSE, Bacteria, Environment, Toxicity - Berry, L. J.
MOUSE, Cosmic radiation - Janssen, P.
MOUSE, Cosmic radiation - Lebish, I. J.
MOUSE, Genetics - Boche, Robert D.
MOUSE, Genetics - Budy, Ann M.
MOUSE, Genetics - Mewissen, D. J.
MOUSE, Genetics - Rust, John H.
MOUSE, Impact, Aerospace-medicine, Bioengineering, Overpressures -
Richmond, Donald R.
MOUSE, Impact, Aerospace medicine, Overpressure - White, Clayton S.
MOUSE, Impact, Animal studies, Bioengineering - Bowen, I. Gerald
MOUSE, Behavior, Senses - Grunzke, Marvin E.
MOUSE, Behavior, Senses - Rohles, Frederick H., Jr.
MOUSE, Blood, Physiology - Antipov, V. V.
MOUSE, Life support system, Space capsule - Weisworm, Konrad
MOUSE, Physiology, Blood - Arrsen'Eva, M. A.
MOUSE, Radiation - Doull, J.
MOUSE, Radiation - Fitch, F.
MOUSE, Radiation, Motion sickness, Aerospace medicine - Hasegawa, A.
MOUSE, Radiation - Johnson, O. S.
MOUSE, Radiation - Oldfield, D. G.
MOUSE, Radiation - Pizak, V.
MOUSE, Radiation - Sandberg, A.
MOUSE, Radiation - Spalding, J. F.
MOUSE, Radiation - Vesselinovitch, D.
MOUSE, Radiation - Yagoda, Herman
MOUSE, Radiation, Animal studies - Chapmen, Calvin C.
MOUSE, Radiation, Balloon, Brain - Haymaker, Webb
MOUSE, Radiation, Embryo, Growth - Kuznetsova, N. N.
MOUSE, Radiation, Pathology - Davis, Richard L.
MOUSE, Space biology, Physiology - Lindberg, R. G.
MOUSE, Space cabin, Closed ecological system, Survival - Henry, I.
MOUSE, Space cabin, Closed ecological system, Survival - Lee, M. F.
MOUSE, Toxicity, Environment - Previte, J. J.
MUSCLE, Neurology, Vision, Physiology - Melton, Carlton E.
MUSCLE, Weightlessness, Senses, Human - Konovalov, A. I.
MUSCLES, Weightlessness, Senses, Human - Zakulov, B. A.
MUSCLES, Weightlessness, Space medicine - Gurodskiy, N.N.
MUSCLES, Weightlessness, Space medicine - Gerd, M. Z.

NERVOUS System, Weightlessness - Shack, Y. D.
NEUROLOGY, Bioinstrumentation, Space environment, Gravity, Vibration - Adey, W. R.
NEUROLOGY, Radiation, Senses - Iivshits, N. N.
NEUROLOGY, Radiation, Senses - Meyzerov, Ye. S.
NEUROLOGY, Radiation, Senses - Apanasenko, Z. I.
NEUROLOGY, Radiation, Senses - Kuznetsova, M. A.
NEUROLOGY, Radiation - Livanov, Mikhail Nikolaievich
NEUROLOGY, Senses, Psychology - Grunberg, M.
NEUROLOGY, Sleep, Senses - Rokotova, N. A.
NEUROLOGY, Sleep, Senses - Kucherenko, T. M.
NEUROLOGY, Sleep, Senses - Pavlov, V. N.
NEUROLOGY, Sleep, Senses - Trokhachev, A. I.
NEUROLOGY, Space flight, Senses - Luk'yanova, L. D.
NEUROLOGY, Space flight, Senses - Livshits, N. N.
NEUROLOGY, Space flight, Senses - Apanasenko, Z. I.
NEUROLOGY, Space flight, Senses - Kuznetsova, N. A.
NEUROLOGY, Toxicity, Senses - Cianko, G. M.
NEUROLOGY, Toxicity, Senses - Schoettlin, C. E.
NEUROLOGY, Toxicity, Senses - Walther, R. D.
NOISE, Communication, Ear, Speech - Dixon, Richard F.
NOISE, Communication, Ear, Speech - Huntington, Dorothy A.
NOISE, Communication, Ear, Speech - Newby, Hayes A.
NOISE, Communication, Ear, Speech - Ross, Mark
NUCLEIC Acids, Embryo, Growth, Blood - Seno, S.
NUCLEIC Acid, Protein - Te-pao, Wang
NUCLEIC Acid, Protein - Wei-lien, Meng
NUTRITION, Food, Closed ecological system - Goldblith, Samuel A.
NUTRITION, Food, Closed ecological system - Wick, Emily L.
NUTRITION, Food, Space flight - Bychkov, V. P.
NUTRITION, Food, Space flight - Nakamura, H.
NUTRITION, Food, Space flight - Ushakov, A. S.
NUTRITION, Space flight, Algae - Lancaster, John H.

ORGAN, Growth, Gravity - Wunder, Charles C.
ORGANISM, Anion, Physiology - Wehrli, Frederico
ORGANISM, Environment, Animal Studies - Sherping F.
ORGANISM, Exobiology, Environment - Kleczek, J.
OXYGEN, Atmosphere control - Bovard, Robert M.
OXYGEN Effect, Pharmacology, Radiation - Ardashnikov, S. N.
OXYGEN Effect, Pharmacology, Radiation - Lur'ye, G. Ye.
OXYGEN Effect, Pharmacology, Radiation - Rakhmanova, T. B.
OXYGEN Effect, Pharmacology, Radiation - Shchepoteva, Ye. S.
OXYGEN Effect, Radiation - Lure, G. E.
OXYGEN, Tissue, Environment - Chow, B. F.

PATHOGEN-free, Space, Plants - Baker, Ralph
PATHOLOGICAL, Animals, Space flight - Petrukhin, V. G.
PATHOLOGY, Aerospace medicine, Environment - Goodall, McC.
PATHOLOGY, Human, Space flight - Pletcher, Kenneth E.
PATHOLOGY, Mouse, Radiation - Davis, Richard L.
PATHOLOGY, Physiology, Radiation, Dogs - Casarett, George W.
PATHOLOGY, Physiology, Radiation, Dogs - Maier, John C.
PATHOLOGY, Radiation - Gorizontov, Petr Dmitrievich
PAYLOADS - Gumpel, M.
PAYLOADS - Joung, W. D.
PAYLOADS - McDonald, W. S.
PAYLOADS - Porter, J. C.
PAYLOADS, Walder, F. L.
PERFORMANCE, Physiology - Chambers, Randall M.
PHARMACOLOGY - George, R.
PHARMACOLOGY - Laborit, H.
PHARMACOLOGY, Brain, Toxicology, Monkeys - Delgado, Jose' M. R.
PHARMACOLOGY, Cat, Nervous system - Freeman, W. J.
PHARMACOLOGY, Cat, Nervous system - Hemingway, A.
PHARMACOLOGY, Cat, Nervous system, Shivering, Temperature control - Stuart, D.G.
PHARMACOLOGY, Decompression, Rat - Lyle, Carl B., Jr.
PHARMACOLOGY, Decompression, Rat - Dahl, Elmer, V.
PHARMACOLOGY, Nervous system - Price, W. M.
PHARMACOLOGY, Oxygen effect - Komarova, R. S.
PHARMACOLOGY, Oxygen effect - Mozharova, Ye. N.
PHARMACOLOGY, Oxygen effect - Rusanov, A. M.
PHARMACOLOGY, Psychology - Aitken, R. C. B.
PHARMACOLOGY, Radiation - Bajwa, G. S.
PHARMACOLOGY, Radiation - Ershoff, B. H.
PHARMACOLOGY, Radiation sickness, Medicine - Chirkova, O. O.
PHARMACOLOGY, Radiation sickness, Medicine - Dumova, A. M.
PHOTOCHEMISTRY, Photosynthesis, Plants - Gaffron, H.
PHOTOCHEMISTRY, Photosynthesis, Space flight - Shakov, A. A.
PHOTOCHEMISTRY, Photosynthesis, Space flight - Stanko, S. A.
PHOTOCHEMISTRY, Photosynthesis, Space flight - Khazanov, V. S.
PHOTOSYNTHESIS, Algae, Closed ecological system - Wallman, H.
PHOTOSYNTHESIS, Algae, Closed ecological system - Dodson, J. L.
PHOTOSYNTHESIS, Bioengineering, Plant - Wallman, H.
PHOTOSYNTHESIS, Closed ecological system, Algae - Fulton, John D.
PHOTOSYNTHESIS, Closed ecological system, Algae - Gafford, Robert B.
PHOTOSYNTHESIS, Closed ecological system, Plant - Myers, Jack
PHOTOSYNTHESIS, Entropy - Gamow, George
PHOTOSYNTHESIS, Environment - Whittingham, C. P.
PHOTOSYNTHESIS, Gas exchanger, Algae - Myers, Jack
PHOTOSYNTHESIS, Gas exchanger, Algae - Bialecki, A.
PHOTOSYNTHESIS, Gas exchanger, Plant -
PHOTOSYNTHESIS, Gas exchanger, Plant - Wallman, H.
PHOTOSYNTHESIS, Gas exchanger, Plant - Cordiero, R. R.
PHOTOSYNTHESIS, Gas exchanger, Plant - Dodson, J. L.
PHOTOSYNTHESIS, Gas exchanger, Plant - Rabe, A. E.
PHOTOSYNTHESIS, Physiology, Gas exchanger - Fulton, John D.
PHOTOSYNTHESIS, Physiology, Gas exchanger - Gafford, Robert D.
PHOTOSYNTHESIS, Plants, Culture - Mayer, A. M.

PHOTOSYNTHESIS, Plant, Bioengineering - Dodson, J. L.
PHOTOSYNTHESIS, Plant, Gas Exchanger - Nickerson, R. J.
PHOTOSYNTHESIS, Space flight, Photochemistry - Khazanov, V. S.
PHOTOSYNTHESIS, Space flight, Photochemistry - Stanko, S. A.
PHOTOSYNTHESIS, Space flight, Photochemistry - Shakov, A. A.
PHOTOSYNTHESIS, Space flight, Radiation - Crawford, G. W.
PHYSICAL Biology - Campbell, F.
PHYSICAL Biology - Danielli, J.
PHYSICAL Biology - Fernandez, Moran, H.
PHYSICAL Biology - Goodman, R.
PHYSICAL Biology - Graham, B.
PHYSICAL Biology - Lapp, C.
PHYSICAL Biology - Merryman, H.
PHYSICAL Biology - Olive, J.
PHYSICAL Biology - Pomerat, J.
PHYSICAL Biology - Pollard, E. C.
PHYSICAL Biology - Rosenblith, W.
PHYSICAL Biology - Vaile, R., Jr.
PHYSICAL Biology, Communications - Shilling, C. W.
PHYSICAL Biology, Diets for space travel, Diet development - Rosenthal, N.
PHYSICAL Biology, Dieting requirements, Diets for space flight - Winitz, M.
PHYSICAL Biology, Environmental biology - Fremont-Smith, F.
PHYSICAL Biology, Radiation genetics - Wald, N.
PHYSICAL Training, Adaptation, Rats, Mice - Rusin, V. Ya.
PHYSIOCHEMISTRY, Physiology, Urine - Diamond, Philip
PHYSIOCHEMISTRY, Space flight, Chlorella - Semenenko, V. E.
PHYSIOCHEMISTRY, Toxicity, Space hazards - Smith, Douglas E.
PHYSIOLOGICAL Functions, Human performance, Thermal balance, Rabbit - Carlson, Loren D.
PHYSIOLOGIC Responses, Food and oxygen, Monkeys - Barr, Norman Lee
PHYSIOLOGY - Hurtado, A.
PHYSIOLOGY, Acceleration - Creer, Brent Y.
PHYSIOLOGY, Acceleration, Heart - Wood, Earl H.
PHYSIOLOGY, Acceleration, Human - Khlebnikov, G. F.
PHYSIOLOGY, Acceleration, Human - Khlebnikov, G. G.
PHYSIOLOGY, Acceleration, Human - Lobashkov, S. I.
PHYSIOLOGY, Acceleration, Human, Animals, Food, Space flight, Bioengineering, Dogs, Training, Cosmonauts - Simpura, S. F.
PHYSIOLOGY, Acceleration, Human, CNS, Cosmonauts, Training - Suvorov, P. M.
PHYSIOLOGY, Acceleration, Human, Cosmonauts, Training - Khlebnikov, G. F.
PHYSIOLOGY, Acceleration, Human, Cosmonauts, Training - Lobashkov, S. I.
PHYSIOLOGY, Acceleration, Human, Cosmonauts, Training, Selection - Kotovskaya, A. R.
PHYSIOLOGY, Acceleration, Tolerance - Barer, A. S.
PHYSIOLOGY, Acceleration, Tolerance - Golov, G. A.
PHYSIOLOGY, Acceleration, Tolerance - Tikhomirov, Ye. P.
PHYSIOLOGY, Acceleration, Tolerance - Zubavin, V. B.
PHYSIOLOGY, Acceleration, Tolerance, Closed ecological systems, Pressure- Barer, A. S.
PHYSIOLOGY, Aerospace medicine - Parin, V. V.
PHYSIOLOGY, Aerospace medicine, Acceleration - Meehan, John P.
PHYSIOLOGY, Aerospace medicine, Acceleration, Training - Vasil'yev, P. V.
PHYSIOLOGY, Aerospace medicine, Acceleration, Training - Voskresenskiy, A. D.

PHYSIOLOGY, Animals, Closed ecological system - Brealav, I. S.
PHYSIOLOGY, Animals, Closed ecological system - Zhironkin, A. G.
PHYSIOLOGY, Animals, Closed ecological system - Il'nitskiy, A. M.
PHYSIOLOGY, Animals, Closed ecological system - Konza, Ye. N.
PHYSIOLOGY, Animals, Closed ecological system - Salatsinskaya, Ye. N.
PHYSIOLOGY, Animals, Closed ecological system - Troshikhin, G. V.
PHYSIOLOGY, Animals, Closed ecological system - Shmeleva, A. M.
PHYSIOLOGY, Animal studies, Heart - Angelakos, Evangelos T.
PHYSIOLOGY, Animal studies, Environment - Rohles, Frederick, Jr.
PHYSIOLOGY, Aviation medicine, Psychology - Graybiel, Ashton
PHYSIOLOGY, Behavior, Animal studies - Rokotova, N. A.
PHYSIOLOGY, Behavior, Animal studies - Bolotina, O. P.
PHYSIOLOGY, Behavior, Animal studies - Kucherenko, T. M.
PHYSIOLOGY, Behavior, Respiration - Hall, A. L.
PHYSIOLOGY, Bioengineering, Urine, Heart, Circulatory system, Weightlessness,
 Human - McCally, Michael
PHYSIOLOGY, Blood, Gravitation - Moskalenko, Yu. Ye.
PHYSIOLOGY, Blood, Heart - Ley, Glen D.
PHYSIOLOGY, Blood, Heart - Ross, Joseph C.
PHYSIOLOGY, Blood, Heart, Suit - Maddock, Gene E.
PHYSIOLOGY, Blood, Mouse - Arsen'Eva, M. A.
PHYSIOLOGY, Blood, Protein - Smolichiev, E. P.
PHYSIOLOGY, Bibliography, Space medicine - Jacobius, Arnold J.
PHYSIOLOGY, Bibliography, Space medicine - Kenk, Roman
PHYSIOLOGY, Bioengineering, Waste - Moyer, James E.
PHYSIOLOGY, Breathing, Human, Pressure - Inanov, A. Ye.
PHYSIOLOGY, Breathing, Pressure - Allfenov, V. N.
PHYSIOLOGY, Breathing, Pressure - Vakar, M. I.
PHYSIOLOGY, Breathing, Pressure - Yeremin, A. V.
PHYSIOLOGY, Conditions, Space flight - Volynkin, Y. M.
PHYSIOLOGY, Conditions, Space flight - Saksonov, P. P.
PHYSIOLOGY, Dogs, Motion sickness - Rassvetayev, V. V.
PHYSIOLOGY, Ear, Physiochemistry - Johnson, M. T.
PHYSIOLOGY, Environment - Hargreaves, John J.
PHYSIOLOGY, Environment - Schleifman, F. M.
PHYSIOLOGY, Environment - Shakkbazian, G. Kh.
PHYSIOLOGY, Environment - Shaw, Emil G.
PHYSIOLOGY, Environment, Heat regulation - Hall, J. F., Jr.
PHYSIOLOGY, Environment, Heat regulation, Temperature control, Human,
 Animals - Kissen, A. T.
PHYSIOLOGY, Environment, Suit - Wilson, Charles L.
PHYSIOLOGY, Environment, Weightlessness - Barnard, George W.
PHYSIOLOGY, Environment, Weightlessness - Benson, Victor G.
PHYSIOLOGY, Environment, Weightlessness - DeForest, R.
PHYSIOLOGY, Environment, Weightlessness - Graveline, Duane E.
PHYSIOLOGY, Environment, Weightlessness - King, Barry G.
PHYSIOLOGY, Feces, Space flight - Wick, Emily L.
PHYSIOLOGY, Feces, Space flight - Goldblith, Samuel A.
PHYSIOLOGY, Feeding, Food, Space flight - Welbourn, Jerry L.
PHYSIOLOGY, Feeding Space - Finkelstein, Beatrice
PHYSIOLOGY, Food, Space flight - Brown, D. L.
PHYSIOLOGY, Food, Space flight - Crawford, D. C.
PHYSIOLOGY, Food, Space flight - Lachance, Poul A.

PHYSIOLOGY, Food, Space flight - Viitanen, V. K.
PHYSIOLOGY, Gas exchangers, Algae - Kok, B.
PHYSIOLOGY, Gas exchanger, Algae - Krall, A. R.
PHYSIOLOGY, Gas exchanger, Algae - Benoit, R. J.
PHYSIOLOGY, Gas exchanger, Photosynthesis - Fulton, John D.
PHYSIOLOGY, Gas exchanger, Photosynthesis - Gafford, Robert D.
PHYSIOLOGY, Gravitation, Effects - Kas'yan, I. U.
PHYSIOLOGY, Gravitation, Effects - Cherepakhin, M. A.
PHYSIOLOGY, Gravitation, Effects, Biochemistry, Food, Radiation, Central nervous system, Acceleration, Weightlessness, Space flight, Blood, Animals, Muscles, Senses - Kas'yan, I. I.
PHYSIOLOGY, Gravitation, Effects, Bioengineering, Speech, Environment, Acceleration, Vibration, Weightlessness, Space flight, Blood, Animals, Muscles, Senses - Yukanov, Ye. M.
PHYSIOLOGY, Gravitation, Effects, Weightlessness, Space flight - Cherepakhin, M. A.
PHYSIOLOGY, Gravity, Behavior - Smith, Arthur H.
PHYSIOLOGY, Gravity, Weightlessness - Timakov, V.
PHYSIOLOGY, Heart - Fogel'son, L. I.
PHYSIOLOGY, Heart, Aerospace medicine - Webb, Martin G.
PHYSIOLOGY, Heart, Aerospace medicine, Space flight, Senses, Eye - Gray, R. Flanagan
PHYSIOLOGY, Heart, Acceleration - Steiner, S. H.
PHYSIOLOGY, Heart, Acceleration - Hershgold, Edward J.
PHYSIOLOGY, Heart, Acceleration - Lindberg, Evan F.
PHYSIOLOGY, Heart, Acceleration - Marshall, Hiram W.
PHYSIOLOGY, Heart, Acceleration - McGuire, Terence F.
PHYSIOLOGY, Heart, Acceleration, Human - Sutterer, William F.
PHYSIOLOGY, Human, Moon, Gravity - Gaume, J. G.
PHYSIOLOGY, Human, Moon, Gravity - Kuehnegger, Walter
PHYSIOLOGY, Human, Space flight - Volynkin, Yu. M.
PHYSIOLOGY, Human, Space flight - Parin, V. V.
PHYSIOLOGY, Human, Weightlessness, Isolation, Capsule - Hanna, Thomas D.
PHYSIOLOGY, Human, Space flight - Yazdovskiy, V. I.
PROBLEMS, Hygiene - Marshak, M. Ye.
PHYSIOLOGY, Hygiene, Space flight - Spasskiy, V. A.
PHYSIOLOGY, Hypodynamics, Psychobiology - Graveline, Duane E.
PHYSIOLOGY, Impact, Acceleration - Gozulov, S.A.
PHYSIOLOGY, Isolation, Space capsule - Hanna, Thomas D.
PHYSIOLOGY, Mammals, Bioinstrumentation - Jones, Hardin B.
PHYSIOLOGY, Mammals, Blood - Pace, Nello
PHYSIOLOGY, Metabolism, Space program - Santamaria, L. J.
PHYSIOLOGY, Metabolism, Space program - Bosse, Roaldn, A.
PHYSIOLOGY, Metabolism, Space program, Environment, Suit for Project Mercury - Burns, Neal M.
PHYSIOLOGY, Mouse, Blood - Antipov, V. V.
PHYSIOLOGY, Mouse pocket, Space biology, Physical biology - Lindberg, R.G.
PHYSIOLOGY, Performance - Chambers, Randall M.
PHYSIOLOGY, Problems, Aerospace medicine - Clark, Robert T.
PHYSIOLOGY, Psychology, Environment - Graybiel, Ashton
PHYSIOLOGY, Radiation, Bibliography - Gex, Robert C.
PHYSIOLOGY, Radiation, Hazards - Schaefer, H. J.
PHYSIOLOGY, Respiration - Green, C. D.

PHYSIOLOGY, Respiration, Closed ecological system - Keating, Donald A.
PHYSIOLOGY, Respiration, Dogs - Smith, D. C.
PHYSIOLOGY, Respiration, Dogs - Barry, J. Q.
PHYSIOLOGY, Respiration, Dogs - Ferguson, F. P.
PHYSIOLOGY, Respiration, Dogs - Gold, A. J.
PHYSIOLOGY, Respiration, Environment - Nesson, Charles W.
PHYSIOLOGY, Respiration, Lungs - Bartlett, Roscoe G., Jr.
PHYSIOLOGY, Senses, Life support systems - Allen, Patricia S.
PHYSIOLOGY, Skin, Body temperature - Iampietro, P. F.
PHYSIOLOGY, Space Bioengineering - Slonim, A. R.
PHYSIOLOGY, Space, Space exploration - Morin, Laurier
PHYSIOLOGY, Space crew, Food - Finkelstein, Beatrice
PHYSIOLOGY, Space flight - Bratt, Harry R.
PHYSIOLOGY, Space flight - Karnendantov, G. L.
PHYSIOLOGY, Space flight, Bioengineering - Hallam, A. P.
PHYSIOLOGY, Space flight, Bioengineering - Jensen, D. H.
PHYSIOLOGY, Space flight, Bioengineering - Kammermeyer, K.
PHYSIOLOGY, Space flight, Bioengineering - Roman, J. A.
PHYSIOLOGY, Space flight, Bioengineering - Violette, F.
PHYSIOLOGY, Space flight, Bioengineering, Weightlessness, Rat, Neurology -
Grandpierre, R.
PHYSIOLOGY, Space flight, Biology - Guzenko, O. G.
PHYSIOLOGY, Space flight, Biology - Chernigovsky, V. N.
PHYSIOLOGY, Space flight, Biology - Yazdovsky, V. I.
PHYSIOLOGY, Space flight, Chickens, Rats - Daugherty, Jack W.
PHYSIOLOGY, Space flight, Chickens, Rats - Korty, Patricia
PHYSIOLOGY, Space flight, Chickens, Rats - Lacey, Dane Eugene
PHYSIOLOGY, Space flight, Human - Benzinger, Theodore H.
PHYSIOLOGY, Space flight, Human - Cell, C.
PHYSIOLOGY, Space flight, Radiation - Fisher, H. K.
PHYSIOLOGY, Space flights, Space capsules - Gilbert, L.
PHYSIOLOGY, Space flight, Space environment - Carlson, L. D.
PHYSIOLOGY, Space flight, Space medicine - Parin, V. V.
PHYSIOLOGY, Space flight, Space medicine - Yazdovsky, V. I.
PHYSIOLOGY, Space flight, Space medicine - Green, Cloid D.
PHYSIOLOGY, Space flight, Weightlessness - Patch, Cephas T.
PHYSIOLOGY, Space flight, Weightlessness - King, Barry G.
PHYSIOLOGY, Space flight, Weightlessness - Shinkman, Paul G.
PHYSIOLOGY, Space medicine, Space flight - Yazdovxkiy, V. I.
PHYSIOLOGY, Space medicine, Space flight - Gazeiko, O. G.
PHYSIOLOGY, Space medicine, Space flight - Sisakyan, N. M.
PHYSIOLOGY, Space medicine, Space flight - Malkin, V. B.
PHYSIOLOGY, Sub-gravity - Ward, J.
PHYSIOLOGY, Survival, Radiation - Yarmonenko, S. P.
PHYSIOLOGY, Survival, Radiation - Avrunina, G. A.
PHYSIOLOGY, Survival, Radiation - Shashkov, V. S.
PHYSIOLOGY, Survival, Radiation - Govorum, R. D.
PHYSIOLOGY, Toxicology, Radiation - Langham, Wright H.
PHYSIOLOGY, Urine, Physiochemistry - Diamond, Philip
PHYSIOLOGY, Weight, Effect - Kelley, C. F.
PHYSIOLOGY, Weightlessness, Environment, Acceleration, Human - Beckman, E. L.
PHYSIOLOGY, Weightlessness, Radiation, Environmental biology - Musacchia, X. J.

PHYSIOLOGY, Zero-gravity - Knight, L.
PILOT, Balloon, Psychology, Manhigh III - McClure, C. M.
PILOT, Manhigh III - Beeding, E. L.
PILOT, Manned, Space capsule - Kurbjun, M. C.
PILOT, Performance, High-speed rotation - Useller, James W.
PILOTS, Space flight, Behavior - Elkind, K. I.
PILOT, Space flight, Exercise - Korobkov, A. V.
PILOT, Training, Space flight, Gravitation, Performance - Chkhaidze, L.V.
PILOT-Control - Rathert, George A., Jr.
PILOT-Control - Romano, S.
PILOT-Control - Woodling, C. H.
PILOT-Control, Acceleration - Kaehler, Richard C.
PILOT-Control, Manned, Automatic control - Fondriat, E. C.
PILOT-Control, Rotation - Algranti, Joseph S.
PILOT-Control, simulation - Douvillier, Joseph G.
PILOT-Control simulation - Rathert, George A., Jr.
PILOT-Control simulation - Sadoff, Melvin
PILOT-Controlled - Jewel, J. W.
PILOT-Controlled, Automatic control - Whitten, James B.
PILOTED Flight Simulator - Coate, R. E.
PILOTED Flight Simulator, Physiology, Acceleration, Pilot, Performance -
Wingrove, Rodney C.
PLANT, Algae, Closed ecological system - Schubert, J. E.
PLANT, Algae, Closed ecological system - Sun, L. S.
PLANT, Algae, Closed ecological system - Bovee, H. H.
PLANT, Algae, Closed ecological system - Eng, T. L.
PLANT, Algae, Closed ecological system - Pilgrim, A. J.
PLANT, Algae, Microorganism, Chlorella - Vladimirova, N. G.
PLANT, Algae, Microorganism, Chlorella, Psysiochemistry, Space flight -
Semenko, V. Ye.
PLANT, Chlorella, Wastes - Oioes, Wesley O.
PLANT, Chlorophyll, Closed ecological system - Marcus, Rudolph J.
PLANT, Closed ecological system, Environment - Golucke, Clarence G.
PLANT, Closed ecology - Bertrand, Anson R.
PLANT, Closed ecology - Elkins, Charles B., Jr.
PLANT, Closed ecology - Harris, Donald G.
PLANT, Closed ecology - Pallas, James E., Jr.
PLANT, Culture, Algae - Nichiporovich, A. A.
PLANT, Culture, Algae - Semenenko, V., Ye.
PLANT, Culture, Algae - Vladimirova, M. G.
PLANT, Effects, Rotation - Gordon, S. A.
PLANT, Environment - Jakucs, Pal
PLANTS, Exobiology, Mars - Ehrlich, Richard
PLANT, Exobiology, Mars - Fulton, John D.
PLANTS, Exobiology, Mars - Gowdy, Betty
PLANTS, Exobiology, Mars - Hawrylegicz, Ervin
PLANT, Fungi, Food - Gray, William D.
PLANT, Growth, Genetics - Gostimskii, S. A.
PLANT, Growth, Genetics, Space flight - Mozhaeva, V. S.
PLANT, Growth, Genetics, Space flight - Nevzgodina, L. V.
PLANT, Life support system, Closed ecological system, Bioengineering -
Wilks, Syrrels
PLANT, Light, Growth - Salisbury, Frank B.

PLANTS, Pathogen-free, Space - Baker, Ralph
PLANT, Photosynthesis, Bioengineering - Wallman, H.
PLANT, Photosynthesis, Bioengineering - Dodson, J. L.
PLANT, Photosynthesis, Closed ecological system - Myers, Jack
PLANT, Photosynthesis, Gas exchanger - Speziali, V. A.
PLANT, Photosynthesis, Gas exchanger - Wallman, H.
PLANT, Photosynthesis, Gas exchanger - Cordiero, R. R.
PLANT, Photosynthesis, Gas exchanger - Dodson, J. L.
PLANT, Photosynthesis, Gas exchanger - Rabe, A. E.
PLANT, Photosynthesis, Gas exchanger - Nickerson, R. J.
PLANTS, Photosynthesis, Photochemistry, Pigments - Wassink, E. C.
PLANTS, Pigments, Photosynthesis, Physiology - McLeod, G. C.
PLANTS, Seeds, Space biology - Eiges, N. S.
PLANTS, Seeds, Space biology, Genetics, Space flight - Valeva, S. A.
PLANTS, Space botany - Bazykine, Victor
PLANTS, Space flight, Seeds, Genetics - Prokof'yeva-Bel'govskaya, A. A.
PLANTS, Space flight, Seeds - Sokolov, N. N.
PLANTS, Space flight, Seeds, Genetics, Radiation - Khvostova, V. V.
PLANTS, Space flight, Seeds, Genetics, Radiation - Sidorov, B. N.
PLANT, Space program - Kazykine, Victor
PLANT, Space program, Virus - Kalter, S. S.
PLANT, Sterilization, Microorganisms - Hoffman, Robert K.
PLANT, Sterilization, Microorganisms, Spacecraft sterilization - Phillips,
Charles R.
PLANT, Virus, Space program - Daye, G. T., Jr.
PLANT, Virus, Space program - Hellman, A.
PLANT, Virus, Space program - Jordan, H. W.
PLANT, Yeast, Space flight - Kovayazin, N. V.
PLANT, Yeast, Space flight - Lukin, A. A.
PLANT, Yeast, Space flight, Animal studies, Insects, Genetics, Drosophila,
Environment, Space capsule, Closed ecological system - Parfenov, G. P.
PRESSURE, Physiology, Breathing - Vakar, M. I.
PRESSURE, Physiology, Breathing - Yeremin, A. V.
PRESSURE, Physiology, Breathing - Allfenov, V. N.
PRESSURE, Physiology, Breathing - Ivanov, A. Ye.
PRESSURE Suit - Greider, H. R.
PRESSURE Suit - Klein, Sidney J.
PROBLEMS, Aerospace medicine - Sisakyan, N. M.
PROBLEMS, Aerospace medicine - Clark, Robert T.
PROBLEMS, Aerospace medicine - Syrotynin, M. M.
PROBLEMS, Aerospace medicine - Berry, Charles A.
PROBLEMS, Aerospace medicine - Carter, Eart T.
PROBLEMS, Aerospace medicine, Physiology - Clark, Robert T.
PROBLEMS, Bioengineering, Heart - Akulinichev, I. T.
PROBLEMS, Heart, Bioengineering - Fogel'son, L. I.
PROBLEMS, Heart, Bioengineering - Degtyar', G. Ya.
PROBLEMS, Heart, Bioengineering - Starobinets, K. M.
PROBLEMS, Heart, Bioengineering - Timashuk, K. F.
PROBLEMS, Psychology, Bioengineering - Denissov, V. G.
PROBLEMS, Psychology, Bioengineering - Akulinichev, E. T.
PROBLEMS, Radiation, Space flight - Antipox, V. V.
PROBLEMS, Radiation, Space flight - Dobrov, N. N.
PROBLEMS, Radiation, Space flight - Frank, G. M.

PROBLEMS, Radiation, Space flight - Saksonov, P. P.
PROBLEMS, Radiation, Space flight - Yusken, John
PROBLEMS, Radiation, Space flight, CNS - Lebedinskiy, A. V.
PROBLEMS, Radiation, Space flight, Physiology, Gas exchange, Closed ecological system, Bioengineering - Nefedov, Yu. G.
PROBLEMS, Psychology, Aerospace medicine - Chambers, Randall M.
PROBLEMS, Space, Medicine - Benson, Otis, O., Jr.
PROBLEMS, Space, Tissue - Kovalenko, Ye. A.
PROBLEMS, Space biology - Sisakyan, N. M.
PROBLEMS, Space biology - Sisakyan, N. M.
PROBLEMS, Space biology - Yazdovskiy, V. I.
PROBLEM, Space medicine, Motion sickness - Komendantov, G. L.
PROBLEM, Space medicine, Motion sickness - Kopanov, V. I.
PROBLEMS, Space program - Yazdovskii, V. I.
PROJECT MERCURY - Bond, A. C.
PROJECT MERCURY, Bioastronautics - Flickinger, Donald D.
PROJECT MERCURY, Chimpanzee, Behavior, Nutrition - Reynolds, Herbert H.
PROJECT MERCURY, Environment, Suit - Burdick, R. L.
PROJECT MERCURY, Suit, Environment - Burns, Neal M.
PROTEIN, Blood - Segal, L.
PROTEIN, Exobiology, Microorganisms, Environment - Fox, Sidney W.
PROTEIN, Microorganisms, Environment, Exobiology - Yuyama, Shuhei
PROTEIN, Physiology - Burkhardt, G.
PROTEIN, Physiology, Blood - Smolichev, E. P.
PROTEIN, Radiation, Pharmacology, Oxygen effect - Kakushkina, M. L.
PROTEIN, Radiation, Pharmacology, Oxygen effect - Korolev, N. P.
PROTEIN, Radiation, Pharmacology, Oxygen effect - Kudryashov, Yu. B.
PSYCHIATRY - Flaherty, B. E.
PSYCHIATRY - Steinkamp, G. R.
PSYCHIATRY, Behavior - Flinn, Don E.
PSYCHIATRY, Space flight, Acceleration - Hauty, George T.
PSYCHOBIOLOGY, Physiology, Hypodynamics - Graveline, Duane E.
PSYCHOBIOLOGY - McKenzie, Richard E.
PSYCHOLOGICAL Effects, Space crew - Ruff, G. E.
PSYCHOPHYSICS, Weightlessness, Space medicine - Haber, Heinz
PSYCHOBIOLOGICS, Behavior - Hartman, Bryce O.
PULMONARY Function, Extraterrestrial atmosphere, Space flight, Human physiology, Heart - Bartlett, Roscoe, G.
PSYCHOLOGY, Acceleration, Instrumentation - Freedman, Toby
PSYCHOLOGY, Aerospace medicine, Problems - Chambers, Randall M.
PSYCHOLOGY, Animal studies, Pharmacology, Medicine - Jaques, B.
PSYCHOLOGY, Animal studies, Pharmacology, Medicine - Millar, G. J.
PSYCHOLOGY, Bioengineering, Problems - Akulinichev, E.T.
PSYCHOLOGY, Bioengineering, Problems, Biotelemetry, Human - Denisov, V. G.
PSYCHOLOGY, Blood, Physiology - Gaertner, H. A.
PSYCHOLOGY, Environment Physiology - Graybiel, Ashton
PSYCHOLOGY, Human, Space program - Grether, Walter F.
PSYCHOLOGY, Human, Senses - Ruff, George E.
PSYCHOLOGY, Life support systems, Senses - Bennett, Edward M.
PSYCHOLOGY, Life support systems, Senses - Kemler, Dorothy K.
PSYCHOLOGY, Man - Fried, Robert
PSYCHOLOGY, Manned, Space flight - Durst, Karl
PSYCHOLOGY, Neurology, Adaptation - Jacobson, Edmund

PSYCHOLOGY, Neurology, Senses - Grunberg, M.
PSYCHOLOGY, Physiology, Aviation medicine - Graybiel, Ashton
PSYCHOLOGY, Physiology, Neurology, Behavior - Cohen, S. I.
PSYCHOLOGY, Physiology, Neurology, Behavior - Silverman, A. J.
PSYCHOLOGY, Physiology, Performance, Human - Coules, J.
PSYCHOLOGY, Senses, Space Flight - Gorbov, F.
PSYCHOLOGY, Space biology, Weightlessness - Midler, A.
PSYCHOLOGY, Space flight - Platonov, K. K.

Radial Flux - Flax, L.
RADIAL Flux, Noise - Callaghan, Edmund E.
RADIATION - Bazilevskaya, G. A.
RADIATION - Campbell, V.
RADIATION - Canning, T. N.
RADIATION - Bailey, H. E.
RADIATION - Dobrotin, N. A.
RADIATION - Dzhepelev, V. P.
RADIATION - Fedorova, V. L.
RADIATION - Garchakov, E. V.
RADIATION - Ivanenko, I. P.
RADIATION - Ivens, T.
RADIATION - Karamzina, N. M.
RADIATION - Koblet, R.
RADIATION - Kovalev, Ye. Ye.
RADIATION - Murazin, V. Ch.
RADIATION - Nikolaev, G.
RADIATION - Ryzhov, N. I.
RADIATION - Shafer, Yu. G.
RADIATION - Smirenngz, L. N.
RADIATION - Vakulov, P. V.
RADIATION - Yanovskaya, V. I.
RADIATION - Yoshikawa, K. K.
RADIATION, Aerospace medicine, Space flight - Schwichtenberg, A. H.
RADIATION, Aerospace medicine, Tissue - Straile, William E.
RADIATION, Aerospace medicine, Tissue - Arsenault, Claudette
RADIATION, Aerospace medicine, Tissue - Chase, Herman B.
RADIATION, Animals - Batchelor, A. L.
RADIATION, Animals - Edmundson, P. W.
RADIATION, Animal, Exobiology - Samoylova, K. A.
RADIATION, Animal, Time factor - Grigor'yev, Yu. G.
RADIATION, Animal studies, Medicine - Korotkova, V. P.
RADIATION, Animal studies, Medicine - Stashkov, A. M.
RADIATION, Animal studies, Mouse - Chapman, Calvin C.
RADIATION, Aviation medicine - Campbell, Paul A.
RADIATION, Bacteria - Smith, J. Chandler
RADIATION, Balloon, Brain Mouse - Haymaker, Webb
RADIATION, Bibliography, Physiology - Gex, Robert C.
RADIATION, Biochemistry, Food - Metlitskii, L. V.
RADIATION, Biochemistry, Food - Kas'yan, I. I.
RADIATION, Biological effects - Curtis, H. J.
RADIATION, Biologistics, Space flight - Campbell, Paul A.
RADIATION, Blood - Astaldi, G.
RADIATION, Blood - Farkass, E.
RADIATION, Blood - Scheller, E. F.
RADIATION, Blood - Sendrishcheva, Z. A.
RADIATION, Blood - Shul'ts, N. A.
RADIATION, Blood, Mammal, Monkey - Anderson, Donald R.
RADIATION, Blood, Mammal, Monkey - Hernandez-Diaz, Alexander
RADIATION, Blood, Mammal, Monkey - Quinn, Frances A.
RADIATION, Cells, Physiology, Oxygen - Andrews, J. Robert
RADIATION, Cells, Physiology, Oxygen - Belli, James A.
RADIATION, Cells, Physiology, Oxygen - Correa, Jose N.

RADIATION, Cells, Space flight - Davis, Irving
RADIATION, Cells, Space flight - Roberts, Thomas L.
RADIATION, Cells, Spores, Microorganisms, Space flight - Lassiter, Sylvester
RADIATION, Cells, Spores, Space flight, Space medicine - Prince, John E.
RADIATION, C N S, Effects - Nakhil'nitskaya, Z. N.
RADIATION, Diagnosis, Animal studies - Pickering, John E.
RADIATION, Effects - Moskalev, Yu. I.
RADIATION, Effects - Petrovich, I. K.
RADIATION, Effects - Sandeman, T. F.
RADIATION, Effect, Bioengineering - Kurlyandskaya, E. B.
RADIATION, Effects, Biologic systems - Preston, William M.
RADIATION, Effects, Biologic systems - Sweet, William H.
RADIATION, Effects, Genetics - DeBusk, A. Gib
RADIATION, Effect, Spaceships - Gyurdzhiam, A. A.
RADIATION, Embryology, Weightlessness - Neifakh, A.
RADIATION, Environment - Danileyko, V. I.
RADIATION, Environment - Newell, Homer E.
RADIATION, Environment, Space travel, Magnetic field - Tooper, Robert F.
RADIATION, Genetics - Babcock, E. B.
RADIATION, Genetics - Belgovskiy, M. L.
RADIATION, Genetics - Collins, J. L.
RADIATION, Genetics - DeBuk, A. Gib
RADIATION, Genetics - Frigen, G. G.
RADIATION, Genetics, Effect - Miller, A. V.
RADIATION, Genetics, Effect - Rapoport, I. A.
RADIATION, Genetics, Effects - Strashnenko, S. I.
RADIATION, Genetics, Effect, Humans - Rapoport, I. A.
RADIATION, Genetics, Human - Avrunina, G. A.
RADIATION, Genetics, Human, Physiology, Survival, Effects, Pharmacology,
 Oxygen effect - Avrunina, G. A.
RADIATION, Genetics, Human, Physiology, Survival, Effects, Pharmacology,
 Oxygen effect - Yarmonenko, S. R.
RADIATION, G-tolerance - McNee, Richard C.
RADIATION, G-tolerance - Womack, J.
RADIATION, Hazards, Physiology, Tissue, Space flight - Schaefer, Hermann J.
RADIATION, Hazards, Space flight - Schaefer, Hermann J.
RADIATION, Human - Bleiler, W. E.
RADIATION, Human - Grant, W. B.
RADIATION, Human, Cells, Tissue, Culture - Barendsen, G. W.
RADIATION, Human, Cells, Tissue, Culture - Broerse, J. J.
RADIATION, Human, Organism - Siventsev, Yu. V.
RADIATION, Impact, Balloon - Howe, John T.
RADIATION, Instrumentation, Life sciences - Waggoner, James N.
RADIATION, Life - Aleksander, P.
RADIATION, Life sciences - Bonet-Maury, P.
RADIATION, Life sciences - Deering, R. A.
RADIATION, Life sciences - Deysine, A.
RADIATION, Life sciences - Frilley, M.
RADIATION, Life sciences - Hutchinson, Franklin
RADIATION, Life sciences - Schambra, Philip E.
RADIATION, Life sciences - Stefan, C.
RADIATION, Life sciences - Tobias, K. A.
RADIATION, Mammals - Grayevskiy, A. Ya.

RADIATION, Mammals - Konstantinova, M. M.
RADIATION, Mammals - Schnell, Jay H.
RADIATION, Mammals - Smirnova, I. B.
RADIATION, Mammal, Bone, Genetics - Barakina, N. F.
RADIATION, Mammal, Bone, Genetics - Ianushevskaya, M. Ia.
RADIATION, Mammal, Bone, Genetics - Shapiro, I. M.
RADIATION, Mammals, Embryo, Growth - Russel, L. B.
RADIATION, Mammal, Tissue, Space flight, Human, Culture - Katzberg, Allan A.
RADIATION, Manned, Space station, Space environment - Reity, D.
RADIATION, Microorganisms, Meteorobiology - Bergter, F.
RADIATION, Microorganisms, Meteorobiology - Knoll, H.
RADIATION, Microorganisms, Meteorobiology - Tzaschel, R.
RADIATION, Microorganisms, Space flight - Wynne, E. Statten
RADIATION, Microorganisms, Space flight, Exobiology - Roberts, Thomas L.
RADIATION, Monkey - Borella, Henry
RADIATION, Monkey - Melville, G. S., Jr.
RADIATION, Monkeys, Pickering, John E.
RADIATION, Monkey - Young, R. J.
RADIATION, Mouse - Yagoda, Herman
RADIATION, Mouse, Balloon, Space environment, Brain - Behar, Albert
RADIATION, Mouse, Balloon, Space environment, Brain - Fily, Robert
RADIATION, Mouse, Balloon, Space environment, Brain - Hewitt, John E.
RADIATION, Mouse, Balloon, Space environment, Brain - Kraner, Keith L.
RADIATION, Mouse, Tissue - Pomerantseva, M. D.
RADIATION, Neurology, Animal studies, Embryo - Ayropetyants, M. G.
RADIATION, Neurology, Animal studies, Embryo - Piontkovsky, I. A.
RADIATION, Organism - Bennett, H. F.
RADIATION, Organism - Brown, F. A.
RADIATION, Organism - Engelstad, R. B.
RADIATION, Organism - Koltsov, N. K.
RADIATION, Organism - Moxnes, N. H.
RADIATION, Organism - Webb, H. M.
RADIATION, Pathology - Braver, Ralph W.
RADIATION, Pathology - Brues, A. M.
RADIATION, Pathology - Burch, P. R. J.
RADIATION, Pathology - Krebs, John S.
RADIATION, Pathology - Reed, G. W.
RADIATION, Pathology - Spiers, F. W.
RADIATION, Pathology - Wesley, J. P.
RADIATION, Pathology, Mouse - Davis, Richard L.
RADIATION, Pathology, Neurology, Muscle - Steinbrecker, Wolfgang
RADIATION, Pharmacology, Blood, Neurology, Medicine - Haley, Thomas J.
RADIATION, Photosynthesis, Space flight - Crawford, G.W.
RADIATION, Physiology, Respiration - Bychkovskaya, I. B.
RADIATION, Physiology, Space flight - Fisher, H. K.
RADIATION, Physiology, Survival - Yarmonenko, S. P.
RADIATION, Physiology, Survival - Avrunina, G. A.
RADIATION, Physiology, Survival - Shashkov, V. S.
RADIATION, Physiology, Survival - Govorum, R. D.
RADIATION, Physiology, Toxicology, Manned, Space flight - Langham, Wright H.
RADIATION, Physiology, Weightlessness - Musacchia, X. J.
RADIATION, Primates - Harlow, H. F.
RADIATION, Primates - Schrier, A. M.

ROTATION, Pilot control - Algranti, Joseph S.
RADIATION, Rat, Brain - Miquel, J.
RADIATION, Satellite, Earth - Fradkin, M. I.
RADIATION, Satellite, Earth - Grigorov, N. L.
RADIATION, Satellite, Earth - Logachev, Yu. L.
RADIATION, Satellite, Earth - Razorenov, L. A.
RADIATION, Satellite, Earth, Space - Vernov, S. N.
RADIATION, Seeds, Primates - Simons, B.
RADIATION, Senses, Neurology - Apanasenko, Z. I.
RADIATION, Senses, Neurology - Kuznetsova, M. A.
RADIATION, Senses, Neurology, CNS - Meyzerov, Ye. S.
RADIATION, Senses, Neurology, Space flight, CNS - Livshits, N. N.
RADIATION, Senses, Neurology, Space flight, Ear, Guinea pig, CNS -
Kuznetsova, M. A.
RADIATION, Space - Barnes, Charles M.
RADIATION, Space - Foelsche, Trutz
RADIATION, Space biology - Krueger, Albert P.
RADIATION, Space environment - Allen, Ralph G., Jr.
RADIATION, Space environment - Berger, Rainer
RADIATION, Space environment - Blizzard, Everitt P.
RADIATION, Space environment - Hewett, John E.
RADIATION, Space environment - Simons, David G.
RADIATION, Space environment - Zellmer, Robert W.
RADIATION, Space environment, Human - Evans, T. C.
RADIATION, Space environment, Space - Krebs, A. T.
RADIATION, Space exploration - Martina, E. F.
RADIATION, Space exploration - Shrader, C. D.
RADIATION, Space exploration - Stinner, R. J.
RADIATION, Space exploration - Zenger, J. H.
RADIATION, Space flight, Biology - Zellmer, Robert W.
RADIATION, Space flight, Environment - Mueller, Donald D.
RADIATION, Space flight, Environment - Simons, John C.
RADIATION, Space flight, Environment - Vann Allen, James A.
RADIATION, Space flight, Problems - Antipov, V. V.
RADIATION, Space flight, Problems - Dobrov, N. N.
RADIATION, Space flight, Problems - Lebedinskiy, A. V.
RADIATION, Space flight, Problems - Lebedinskiy, A. V.
RADIATION, Space flight, Problems - Nefedov, Yu. G.
RADIATION, Space flight, Problems - Saksonov, P.P.
RADIATION, Space flight, Problems - Yusken, John
RADIATION, Space flight, Problems, CNS - Frank, G. M.
RADIATION, Space flight, Space capsule - Dole, S. H.
RADIATION, Space flight, Space environment - Keirim-Markus, I. B.
RADIATION, Space flight, Space environment - Schaefer, Hermann J.
RADIATION, Space flight, Space environment - Serguva, N. A.
RADIATION, Space flight, Space environment - Uspenskii, L. N.
RADIATION, Space flight, Space environment, Gravity - Zellmer, Robert W.
RADIATION, Space flight, Space medicine - Prince, John E.
RADIATION, Space flight, Spaceships - Nesterov, V. Ye.
RADIATION, Space flight, Spaceships - Pisarenko, N. F.
RADIATION, Space flight, Spaceship - Savenko, I. A.
RADIATION, Space flight, Spaceships - Shavrin, P. I.
RADIATION, Space flight, Tolerance - Houghton, Karl H.

RADIATION, Space Hazards, Environment - Magsood, M.
RADIATION, Space, Heart - Shellabarger, C. J.
RADIATION, Space, Man - Lifton, S. E.
RADIATION, Space program - Carriker, A. W.
RADIATION, Space program - Eiwen, C. J.
RADIATION, Space program - Saylor, W. P.
RADIATION, Space program - Winer, D. E.
RADIATION, Space, Satellites - Chudakov, A. I.
RADIATION, Spaceship - Matveyev, V. V.
RADIATION, Spaceship - Sokolov, A. D.
RADIATION, Telemetering system - Simons, David G.
RADIATION, Telemetry, Human - Belousov, A. S.
RADIATION, Telemetry, Humans - Dimanis, V. I.
RADIATION, Telemetry, Humans - Sorin, A. M.
RADIATION, Thermal protection systems, Velocity - Wick, B. H.
RADIATION, Telemetry, Humans - Zhukov, In. S.
RADIATION, Tissue, Animal studies, Exobiology - Levina, V. L.
RADIATION, Tissue, Biotelemetry - Korneev, V. T.
RADIATION, Tissue, Biotelemetry - Markelov, V. V.
RADIATION, Tissue, Environment - Schaefer, Hermann J.
RADIATION, Toxicity - Bruce, David W.
RADIATION, Vibration - Sanskina, A. N.
RADIATION, Yeast - Beam, C. A.
RADIATION, Yeast - Birge, A. C.
RADIATION, Yeast - Sayeg, J. A.
RADIOBIOLOGY - Graenskiy, E. Ya.
RADIOBIOLOGY - Winckler, John R.
RADIOBIOLOGY, Physiology, Space flight, Weightlessness, Radiation, Dog,
Training, Animal studies, Human, Physiology - Chernigovsky, Vladimir
Nickolaevich
RAT, Acceleration, Aerospace medicine - Jelek, L.
RAT, Acceleration, Aerospace medicine - Jrojan, S.
RAT, Acceleration, Animal studies - Lyle, J. M.
RAT, Acceleration, Animal studies - Reeves, Elizabeth
RAT, Acceleration, Animal studies - Steihm, E. R.
RAT, Acceleration, Behavior - Herrick, Robert M.
RAT, Blood, Growth - Feigen, George A.
RATS, Blood, Temperature control - Caffrey, R. W.
RATS, Blood, Temperature control - Everett, N. B.
RATS, Circulatory system - Stara, J. F.
RATS, Circulatory system - Thomas, R. G.
RATS, Enzyme - Back, M. J.
RATS, Enzyme - Sanders, S.
RATS, Enzyme, Travis, P.
RATS, Enzyme - Otis, A. B.
RATS, Enzymes, Acceleration - Paolucci, G.
RAT, Enzyme, Pharmacology - Hayward, Mary E.
RAT, Growth, Blood - Johnson, Paul K.
RAT, G-Tolerance, Acceleration - Frazer, J. W.
RAT, Heat regulation, Survival, Circulatory system - Lesage, M. A.
RAT, Heat regulation, Survival, Circulatory system - Sealy, W. C.
RAT, Heat regulation, Survival, Circulatory system - Young, W. G.
RATS, Heart, Pharmacology, Heat regulation - Evonuk, Eugene

RAT, Pharmacology, Decompression - Dahl, Elmer V.
RAT, Pharmacology, Decompression - Lyle, Carl B., Jr.
RATS, Radiation, Enzyme - Keshmiri, Marjorie
RATS, Radiation, Enzyme, Liver - Hietbrink, Bernard E.
RATS, Radiation, Liver, Toxicity, Aerospace medicine - DuBois, Kenneth P.
RAT, Radiation, Thermal balance - Jackson, B. H.
RATS, Respiration, Animal studies - Malkin, V. B.
RATS, Respiration, Animal studies - YUrkov, A. E.
RAT, Space cabin, Blood - Jenson, Robert L.
RAT, Space cabin, Genetics - Phillips, J. M.
RAT, Tissue, Respiration - Duckworth, Marjorie W.
REGENERATION, Biological - Dyer, Denzel L.
REGULATION, Respiration - Marshak, M. Ye.
REQUIREMENTS, Life support system, Space flight - Hall, A. L.
RESPIRATION - Verzhbinskaya, N. I.
RESPIRATION, Animal studies, Rats - Malkin, V. B.
RESPIRATION, Animal studies, Rats - Yurkov, A. E.
RESPIRATION, Brain, Human - Marshak, M. Ye.
RESPIRATION, Closed ecological system - Weiswurm, Konrad
RESPIRATION, Closed ecological system, Metabolism - Bursack, William W.
RESPIRATION, Closed ecological system, Physiology - Keating, Donald A.
RESPIRATION, Dogs, Physiology, Smith, D. C.
RESPIRATION, Dogs, Physiology - Barry, J. Q.
RESPIRATION, Dogs, Physiology - Ferguson, F. P.
RESPIRATION, Dogs, Physiology - Gold, A. J.
RESPIRATION, Environment - Kellogg, Ralph H.
RESPIRATION, Environment, Physiology - Nixon, Charles W.
RESPIRATION, Gas exchanger - Konikoff, J. J.
RESPIRATION, Gas exchanger, Environment- Bovard, Robert M.
RESPIRATION, Heart, Tissue - Vacca, C.
RESPIRATION, Heart, Tissue - Vacca, L.
RESPIRATION, Human closed ecological system - Bambenek, R. A.
RESPIRATION, Human, Closed ecological system - Kubiak, E. J.
RESPIRATION, Human, Closed ecological system - Rest J.
RESPIRATION, Human, Vibration - Ashe, W. F.
RESPIRATION, Human, Vibration, Bioengineering - Hoover, George N.
RESPIRATION, Life sciences - Biget, P. L.
RESPIRATION, Lungs, Physiology - Bartlett, Roscoe G., Jr.
RESPIRATION, Mice Temperature control, Rats, Enzymes - Cassin, S.
RESPIRATION, Muscle, Physiology - Shik, L. A.
RESPIRATION, Oxygen, Pressure, Physiology - Kuznetsov, A. G.
RESPIRATION, Physiology - Green, I. D.
RESPIRATION, Physiology, Behavior - Hall, A. L.
RESPIRATION, Rat, Tissue - Duckworth, Marjorie W.
RESPIRATION, Regulation, Hygiene, Brain, Human - Marshak, M. Ye.
RESPIRATORY System, Growth, Plant - Mitchell, P. W.
RESPIRATORY System, Plant, Closed ecology - Akerlof, G. C.
REGENERATION, Biological - Dyer, Denzel L.
ROTATION, Pilot control - Algranti, Joseph S.
ROTATION, Plant, Effects - Gordon, S. A.

SANITARY Engineering, Space flight, Space capsules - Mattoni, Rudolf H.
SANITARY Engineering, Microbiology, Space environment - Yakolev, V.
SATELLITE - Aleksandrov, S. C.
SATELLITE - Fedorov, R. E.
SATELLITE Attitude Control, Performance - Phillips, William H.
SATELLITE, Radiation - Sirotkin, I. A.
SEEDS, Plants, Space flight - Khvostova, V. V.
SEEDS, Plants, Space flight - Prokof'yeva-Bel'govskaya, A. A.
SEEDS, Plants, Space flight - Sidorov, B. N.
SEEDS, Plants, Space flight - Sokolov, N. N.
SEMICIRCULAR Canal, Environment, Canal sickness - Guedry, Fred E., Jr.
SEMICIRCULAR Canal, Environment, Canal sickness - Graybiel, Ashton
SEMICIRCULAR Canals, Gravity, Aerometeorism - Graybiel, Ashton N.
SEMICIRCULAR Canals, Senses - Kennedy, E. R.
SENSES, Aerospace medicine, Human - Woellner, Richard C.
SENSES, Aerospace medicine, Human - Graybiel, Ashton
SENSES, Behavior - Robinson, J. S.
SENSES, Behavior, Aerospace medicine - Mueller, Donald D.
SENSES, Behavior, Aviation medicine - Stewart, W. K.
SENSES, Behavior, Bioengineering - Rigg, L. D.
SENSE, Ear - Binford, John R.
SENSE, Ear - Carhart, Raymond
SENSE, Ear - Creelman, C. Douglas
SENSE, Ear - Dallos, Peter J.
SENSE, Ear - Durlach, N. I.
SENSE, Ear - Hellman, Rhona P.
SENSE, Ear - Kryter, Karl D.
SENSE, Ear - Pearsons, Karl S.
SENSES, Ear - Wright, H. N.
SENSES, Ear - Zwicker, E.
SENSES, Ear - Zwislocki
SENSE, Ear, Physiology - Campbell, Richard A.
SENSE, Ear, Physiology - Pollack, Irwin
SENSE, Ear, Physiology - Sekey, Andrew
SENSES, Eye, Human - Ritter, Oskar L.
SENSES, Eye, Space flight - Gray, R. F.
SENSES, Eye, Space flight - Strughold, Hubertus
SENSES, Eye, Vision - Roman, J. A.
SENSES, Eyes, Vision - Miller, Earl Fred
SENSES, Eye, Vision - Warren, B. H.
SENSES, Eye, Vision, Behavior - Niven, J. I.
SENSES, Human, Behavior - Cramer, Earl H.
SENSES, Human, Behavior - Hagen, Douglas
SENSES, Human, Behavior - Monroe, John T.
SENSE, Human, Psychology - Rubenstein, L.
SENSES, Life support system, Physiology - Allen, Patricia S.
SENSES, Mouse, Behavior - Grunzke, Marvin E.
SENSES, Mouse, Behavior - Rohles, Frederick H., Jr.
SENSE, Nuerology, Psychology, Space flight - Albright, G. A.
SENSES, Neurology, Psychology, Space flight - Benjamin, F. B.
SENSES, Neurology, Psychology, Space flight - Helvey, W. M.
SENSES, Neurology, Psychology, Space flight - Peters, J.
SENSES, Neurology, Radiation - Apanasenko, Z. I.

SENSES, Neurology, Radiation - Kuznetsova, M. A.
SENSES, Neurology, Radiation - Livshits, N. N.
SENSES, Neurology, Radiation - Meyzerov, Ye. S.
SENSES, Neurology, Sleep - Trokhachev, A. I.
SENSES, Neurology, Sleep - Pavlov, V. N.
SENSES, Neurology, Sleep, Animal studies, Physiology, Behavior, Monkey
 Bioengineering - Kucherenko, T. M.
SENSES, Neurology, Sleep, Physiology, Behavior, Monkey, Bioengineering -
 Rokotova, N. A.
SENSES, Neurology, Space flight - Kuznetsova, N. A.
SENSES, Neurology, Space flight - Apanasenko, Z. I.
SENSES, Neurology, Space flight - Livshits, N. N.
SENSES, Neurology, Space flight - Luk'yanova, L. D.
SENSES, Neurology, Toxicity - Cianko, G. M.
SENSES, Neurology, Toxicity - Schoettlin, C. E.
SENSES, Neurology, Toxicity - Walter, R. D.
SENSES, Performance, Behavior - Gruber, Olin
SENSE, Pharmacology, Psychology, Human - Cameron, D. E.
SENSE, Psychology, Human - Johnson, G. E.
SENSE, Psychology, Human - Levy, E. Z.
SENSE, Psychology, Human - Serrano, Jose, Jr.
SENSES, Psychology, Human - Thaler, V. H.
SENSES, Psychology, Human, Space crew - Ruff, George E.
SENSES, Psychology, Life support system - Bennett, Edward M.
SENSES, Psychology, Life support systems - Kemler, Dorothy K.
SENSES, Psychology, Neurology - Grunberg, M.
SENSES, Space flight, Human - Hauty, George T.
SENSES, Space flight, Psychology - Gorbov, F.
SENSES, Space flight, Vision - Miller, James W.
SENSES, Vision - Palmer, J. D.
SENSES, Vision, Behavior - Karn, H.
SENSES, Vision, Gravity - Kama, William N.
SENSES, Vision, Gravity - Pigg, Leroy D.
SENSES, Weightlessness, Behavior - Brown, Edward L.
SENSES, Weightlessness, Behavior - Flinn, Don E.
SKIN, Blood - Flath, Franz
SKIN, Blood - Hertzman, Alrick B.
SKIN, Body temperature, Physiology - Iampietro, P. F.
SKIN, Gas exchange, Human - Petrun', I. M.
SLEEP, Metabolism - Birkhead, N. C.
SLEEP, Senses, Neurology - Rokotova, N. A.
SLEEP, Senses, Neurology - Kucherenko, T. M.
SLEEP, Senses, Neurology - Pavlov, V. N.
SLEEP, Senses, Neurology - Trokhachev, A. I.
SPACE - Schriever, Bernard A.
SPACE, Bioengineering, Physiology - Slonim, A. R.
SPACE, Biology - Clark, David T.
SPACE, Embryo - Neyfakh, A.
SPACE, Extraterrestrial life, Exobiology - Young, Richard S.
SPACE, Heart, Radiation - Shellabarger, C. J.
SPACE, Life sciences, Exobiology, Space flight, Exobiology, Extraterrestrial
 life - Oparin, A. I.
SPACE, Man, Radiation - Lifton, S. E.

SPACE, Medicine, Problems - Benson, Otis O., Jr.
SPACE, Microbiology - Fedeva, N. p.
SPACE, Microorganisms - Maiskii, I. N.
SPACE, Microorganisms - Pikhov, A. P.
SPACE, Microorganisms - Zhukov-Verezhnikov, N. N.
SPACE, Physiology, Environment - Arrenius, Sv.
SPACE, Physiology, Feeding - Finkelstein, Beatrice
SPACE, Plants, Pathogen-free - Baker, Ralph
SPACE, Radiation - Milford, S. N.
SPACE, Radiation - Sken, S. P.
SPACE, Radiation, Communication - Corkhill, de Paul J.
SPACE, Rockets, Space exploration - Dryden, Hugh L.
SPACE, Space exploration, Physiology - Morin, Laurier
SPACE, Space program, Life sciences - Horowitz, Norman H.
SPACE, Tissue, Problems - Kovalenko, Ye. A.
SPACE Biology - Atwood, K. C.
SPACE Biology - Demin, N. N.
SPACE Biology - Fyodorova, T. A.
SPACE Biology - Galkin, A. M.
SPACE Biology - Goldat, S. Yu.
SPACE Biology - Ilyina, S. S.
SPACE Biology - Kosov, I. I.
SPACE Biology - Parin, V. V.
SPACE Biology - Petrov, A. V.
SPACE Biology, Life support system, Space flight, Space, Animals -
 Pokrovsky, A. V.
SPACE Biology - Retrukhin, V. G.
SPACE Biology, Animal studies, Physiology, Space flight - Galkin, A. M.
SPACE Biology, Animal studies, Physiology, Space flight - Kosov, I. I.
SPACE Biology, Animal studies, Physiology, Space flight - Petrov, A. V.
SPACE Biology, Animal studies, Space flight - Bugrov, B. G.
SPACE Biology, Animal studies, Space flight - Garlov, O. G.
SPACE Biology, Animal studies, Space flight - Serov, A. D.
SPACE Biology, Animal studies, Space flight - Yugov, E. M.
SPACE Biology, Cells - Lozina-Lozinskiy, L. K.
SPACE Biology, Genetics, Drosophila, Space flight, Radiation, Effects -
 Abeleva, E. A.
SPACE Biology, Genetics, Drosophila, Space flight, Radiation, Effects -
 Lapkin, Yu. A.
SPACE Biology, Genetics, Space flight, Plants - Goldat, S. Yu.
SPACE Biology, Genetics, Space flight, Plants - Shamina, Z. B.
SPACE Biology, Microorganisms - Nadson, G. A.
SPACE Biology, Problems - Sisakyan, N. M.
SPACE Biology, Problems - Yaxdovskiy, V. I.
SPACE Biology, Microorganisms, Space flight - Gazenko, O. G.
SPACE Biology, Physiology, Mouse - Lindberg, R. G.
SPACE Biology, Radiation - Krueger, Albert P.
SPACE Biology, Space cabin, Space flight - Welch, B. E.
SPACE Biology, Space flight, Blood, Urine, Metabolism - Demin, N. N.
SPACE Biology, Space flight, Blood, Urine, Metabolism, Animals - Tutochkina,
 L. T.
SPACE Biology, Space flight, Blood, Urine, Metabolism, Animals - Uspenskaya,
 M.S.

SPACE Biology, Space flight, Metabolism, Animals - Kormeyeva, N. V.
SPACE Biology, Space medicine, Environment - Parin, V. V.
SPACE Biology, Suits, Space flight - Bakulev, A.
SPACE Biology, Weightlessness, Effects - Roman, James A.
SPACE Biology, Weightlessness, Psychology - Midler, A.
SPACE Cabins - Miller, J. H.
SPACE Cabin, Blood, Rat - Jenson, Robert L.
SPACE Cabin, Dog - Bakhramov, A. M.
SPACE Cabin, Genetics, Rat - Phillips, J. M.
SPACE Cabin, Oxygen, Toxicity - Roth, Emanuel M.
SPACE Cabin Simulator, Bioengineering - Ibison, R. A.
SPACE Cabin, Space environment, Bioengineering - Mayo, Alfred M.
SPACE Cabin, Space flight, Space biology - Welch, B. E.
SPACE Capsule - Reynolds, L. W.
SPACE Capsules, Algae, Toxicity - Lubitz, Joseph A.
SPACE Capsule, Animal studies - Gell, Charles F.
SPACE Capsule, Animal studies - Stemberidge, Verne
SPACE Capsules, Animal studies, Closed ecological system, Mouse,
Respiration - Weiswurm, Konrad
SPACE Capsule, Closed ecology, Water recovery - Barnett, Stanley M.
SPACE Capsule, Environment - Genin, A. M.
SPACE Capsule, Environment - Gazeiko, O. G.
SPACE Capsule, Environment - Sergeyev, N. P.
SPACE Capsule, Food - Wheaton, Robert B.
SPACE Capsule, Food - Roth Norman G.
SPACE Capsule, Human, Bioengineering - Lawton, Richard W.
SPACE Capsule, Life support system, Closed ecological system - Bosee,
Roland A.
SPACE Capsule, Microorganisms, Waste - Bogan, R. H.
SPACE Capsule, Microorganisms, Waste - Chapman, D. D.
SPACE Capsule, Mouse, Life support system - Weiswurm, Konrad
SPACE Capsule, Physiology, Isolation - Hanna, Thomas D.
SPACE Capsule, Physiology, Space flights - Gilbert, L.
SPACE Capsule, Radiation, Space flight - Dole, S. H.
SPACE Capsules, Sanitary engineering, Space flight - Sullivan, George H.
SPACE Capsules, Sanitary engineering, Space flight - Mattoni, Rudolph H.
SPACE Capsules, Space flight, Space environment - Beson, E. E.
SPACE Capsules, Space flight, Space environment - Dickey, M. P.
SPACE Capsule, Space program, Human - Ulvedal, Frode
SPACE Capsule, Space program, Human - Welch, B. E.
SPACE Capsule, Space program, Human - McKenzie, Richard E.
SPACE Capsule, Space program, Human - Morgan, Thomas E., Jr.
SPACE Capsule, Space program, Human, Psychobiology, Behavior - Hartman,
Bryce O.
SPACECRAFT Sterilization - Koesterer, M.
SPACECRAFT Sterilization - Opfell, O.
SPACE Crew, Psychological effects - Ruff, G. E.
SPACE Crews, Task performance - Peters, Julius
SPACECRAFT, Atmosphere control, Environment - Babinsky, Andrew D.
SPACE Crew, Ear, Sense - Cabezas, Pedro Gomez
SPACE Crew, Food, Physiology, Finkelstein, Beatrice
SPACE Crews, Task Performance - Peters, Julius
SPACE Environment - Blagonravov, A. A.

SPACE Environment - Celentano, J. T.
SPACE Environment - Freeman, G. G.
SPACE Environment - Hessberg, Rufus R.
SPACE Environment, Aerospace medical problems, Behavior, Senses, Gravity - Scano, A.
SPACE Environment, Bibliography, Human - Banghart, Frank W.
SPACE Environment, Bibliography, Human - Pattishall, Evan G.
SPACE Environment, Bioengineering, Human, Space flight - Ekberg, Donald R.
SPACE Environment, Blood - Hittmair, A.
SPACE Environment, Chimpanzee, Behavior, Weightlessness, Space flight - Belleville, Richard E.
SPACE Environment, Closed ecological system, Urine - Hallam, A. P.
SPACE Environment, Closed ecological system, Urine - Slonim, A. R.
SPACE Environment, Closed ecology - Parker, F. A.
SPACE Environment, Extraterrestrial conditions - Beischer, Dietrich E.
SPACE Environment, Feeding, Space medicine - Golikov, A.
SPACE Environment, Feeding, Space medicine - Kas'yan, I.
SPACE Environment, Heart, Human - Beischer, Dietrich E.
SPACE Environment, Human, Capabilities - Preston, Richard J.
SPACE Environment, Life support system, Human - Hauty, George T.
SPACE Environment, Life support system, Space exploration - Weber, Tom
SPACE Environment, Neurology, Bioinstrumentation - Adey, W. R.
SPACE Environment, Organism, Human, Animal - Orbeli, L. A.
SPACE Environment, Radiation - Simons, David G.
SPACE Environment, Radiation - Zellmer, Robert W.
SPACE Environment, Radiation - Hewett, John E.
SPACE Environment, Radiation, Gravity - Allen, Ralph H., Jr.
SPACE Environment, Radiation, Space flight - Schaefer, Hermann J.
SPACE Environment, Sanitary engineering, Microbiology - Yakolve, V.
SPACE Environment, Space cabin - Mayo, Alfred M.
SPACE Environment, Space capsules, Space flight - Beson, E. E.
SPACE Environment, Space capsules, Space flight - Dickey, M.P.
SPACE Environment, Space flight - Parada, G. W.
SPACE Environment, Space flight, Closed ecological system - Konikoff, J. J.
SPACE Environment, Space medicine, Closed ecological system - Keating, Donald A.
SPACE Environment, Space medicine, Closed ecological system - Roundy, Robert W.
SPACE Environment, Space stations, Habitability - Amorelli, D.
SPACE Environment, Spores, Fungus, Microorganisms - Meier, F. C.
SPACE Exploration - Fallone, E. M.
SPACE Exploration, Aerospace medicine, Exobiology - Glenn, William G.
SPACE Exploration, Astronaut, Space capsule, Micrometeorites, Bioengineering - Moon - Hibbs, Albert R.
SPACE Exploration, Environment, Life science, Extraterrestrial life - Cameron, Roy E.
SPACE Exploration, Mars, Aerospace medicine - Hundley, Lee
SPACE Exploration, Mars, Aerospace medicine, Exobiology - Lederberg, Joshua
SPACE Exploration, Mars, Exobiology - Levinthal, Elliott
SPACE Exploration, Physiology, Space - Morin, Laurier
SPACE Exploration, Radiation, Bioengineering, Man - Waggoner, James N.
SPACE Exploration, Space program - Bejuke, Walter M.

SPACE Flight - Carpenter, M. Scott
SPACE Flight - Durling, B. J.
SPACE Flight - Sisakian, N. M.
SPACE Flight, Aerospace medicine, Human - Caidin, Grace
SPACE Flight, Aerospace medicine, Human - Sells, S. B.
SPACE Flight, Aerospace medicine, Medicine - Schwichtenberg, A. H.
SPACE Flight, Acceleration, Human - Stapp, John Paul
SPACE Flight, Acceleration, Psychiatry - Hauty, George T.
SPACE Flight, Aerospace medicine - Rotondo, G.
SPACE Flight, Aerospace medicine, Human - Sells, S. B.
SPACE Flight, Algae, Nutrition - Lancaster, John H.
SPACE Flight, Analysis, Closed ecological system - Townsend, Frank M.
SPACE Flight, Animal studies, Insects - Parfenov, G. P.
SPACE Flight, Animal studies, Insects - Glembotskiy, Ya. L.
SPACE Flight, Astronaut, Motion - Van Schaik, Peter N.
SPACE Flight, Behavior, Pilots - Elkind, K. I.
SPACE Flight, Bibliography, Animal studies - Beischer, D. E.
SPACE Flight, Bibliography, Space medicine - Beischer, Dietrich E.
SPACE Flight, Bibliography, Space medicine - Fregly, Alfred R.
SPACE Flight, Biochemistry, Algae - Barashkov, G. K.
SPACE Flight, Bioengineering - Kelly, G. F.
SPACE Flight, Bioengineering - Kenisov, V. G.
SPACE Flight, Bioengineering - Phipps, C. G.
SPACE Flight, Bioengineering, Physiology - Violette, F.
SPACE Flight, Bioengineering, Physiology - Grandpierre, R.
SPACE Flight, Bioengineering, Physiology - Hallam, A. P.
SPACE Flight, Bioengineering, Physiology - Jensen, D. H.
SPACE Flight, Bioengineering, Physiology - Kammermeyer, K.
SPACE Flight, Bioengineering, Physiology - Roman, J. A.
SPACE Flight, Biology - Price, John B.
SPACE Flight, Biology, Physiology - Yazdovsky, V. I.
SPACE Flight, Biology, Physiology - Chernigovsky, V. N.
SPACE Flight, Biology, Physiology - Gnzenko, O. G.
SPACE Flight, Biology, Radiation - Zellmer, Robert W.
SPACE Flight, Biosatellite - Haviland, Robert P.
SPACE Flight, Blood, Cells - Arsen'yeva, M. A.
SPACE Flight, Blood, Cells, Mice - Il'ina, S. S.
SPACE Flight, Blood, Cells, Mice - Kabanova, L. A.
SPACE Flight, Blood, Cells, Mice, R-E system - Kalyayeva, E. S.
SPACE Flight, Blood, Cells, Mice - Orlova, N. N.
SPACE Flight, Blood, Cells, Mice, Metabolism, Animals - L'vova, T. S.
SPACE Flight, Blood, Cells, Mice, Pathology, Organs - Petrukhin, V. G.
SPACE Flight, Blood, Cells, Mice, Physiology, Radiation, Effects,
Genetics, Monkey - Arsen'yeva, M. A.
SPACE Flight, Blood, Seeds, Mice, Enzyme, Radiation, Microorganisms,
Physiology, Microbiology - Antipov, V. V.
SPACE Flight, Blood, Urine - Fedorova, T. A.
SPACE Flight, Brain, Behavior - French, John D.
SPACE Flight, Cells, Radiation - Davis, Irving
SPACE Flight, Central nervous system - Afanas'yev, D. V.
SPACE Flight, C N S - Pavlov, G. I.
SPACE Flight, Central nervous system, Acceleration, Respiration, Gas
exchange, Weightlessness, Effects, Gravitation, Muscle -
Isakov, P. K.

SPACE Flight, Chimpanzee - Bogo, Victor
SPACE Flight, Chimpanzee - Farrer, Donald N.
SPACE Flight, Chlorella, Physiochemistry - Semenenko, V. E.
SPACE Flight, Closed ecological system - Konikoff, J. J.
SPACE Flight, Closed ecological system, Space environment - Konikoff, J. J.
SPACE Flight, Closed ecological system, Space medicine - Bosee, Roland A.
SPACE Flight, Dogs, Space medicine - Parin, V. V.
SPACE Flight, Environment, Life support - Gerd, M. A.
SPACE Flight, Environment, Life support, Weightlessness, Muscle, Space
medicine, Bioengineering, Speech - Gurobskiy, N. N.
SPACE Flight, Environment, Radiation - Vann Allen, James A.
SPACE Flight, Environment, Radiation, Weightlessness, Motion sickness -
Simons, John C.
SPACE Flight, Environment, Radiation, Weightlessness, Senses, Behavior -
Mueller, Donald D.
SPACE Flight, Environment, Weightlessness - Augerson, Williams S.
SPACE Flight, Environment, Weightlessness - Belleville, Richard E.
SPACE Flight, Environment, Weightlessness - Boas, Robert V.
SPACE Flight, Environment, Weightlessness - Douglas, William K.
SPACE Flight, Environment, Weightlessness - Henry, James P.
SPACE Flight, Environment, Weightlessness - Johnston, Richard S.
SPACE Flight, Environment, Weightlessness - Laughlin, Patrick C.
SPACE Flight, Environment, Weightlessness - Moseley, John D.
SPACE Flight, Enzyme, Blood - Chernov, G. A.
SPACE Flight, Enzyme, Blood - Maslennikova, V. A.
SPACE Flight, Enzyme, Blood - Raushenbakh, M. O.
SPACE Flight, Exercise, Pilot - Korobkov, A. V.
SPACE Flight, Exobiology, Closed ecological system - Phillips, J. N.
SPACE Flight, Explorer II - Briggs, L. J.
SPACE Flight, Food, Hygiene, Nutrition - Adams, Carsbie C.
SPACE Flight, Food, Life support system - Enebo, Lennart
SPACE Flight, Food, Nutrition - Ill'ina, I. A.
SPACE Flight, Food, Nutrition - Reddy, Robert R.
SPACE Flight, Food, Nutrition - Zwick, Eugene B.
SPACE Flight, Genetics - Karpeckenro, G. S.
SPACE Flight, Gravity, Acceleration - Yazdovskii, V. I.
SPACE Flight, Gravity, Acceleration - Parin, V. V.
SPACE Flight, Gravity, Acceleration - Gazenko, O. G.
SPACE Flight, Human - Berry, Charles A.
SPACE Flight, Human - Bushnell, David
SPACE Flight, Human - Hanrahan, James Stephen
SPACE Flight, Human - Nesmegenov, A. N.
SPACE Flight, Human, Biology - Lyman, John
SPACE Flight, Human, Heat regulation, Bibliography - Gex, Robert C.
SPACE Flight, Human, Medicine - Crossfield, Scott A.
SPACE Flight, Human, Medicine - Lovelace, W. Randolph II
SPACE Flight, Human physiology, Heart - Bartlett, R. G.
SPACE Flight, Human, Physiology, Thermal balance - Benzinger, Theodor H.
SPACE Flight, Human, Senses - Hauty, George T.
SPACE Flight, Human, Tissue - Castro, Anthony E.
SPACE Flight, Human, Tissue - More, Llewellyn H.
SPACE Flight, Immunology, Dogs - Alekseyeva, O. G.
SPACE Flight, Immunology - Volkova, A. P.
SPACE Flight, Immunology, Microbiology, Radiation, Animals - Klemparskaya, N. N.

SPACE Flight, Life sciences - Pirie, N. W.
SPACE Flight, Life sciences, Medicine - Saksonov, P. P.
SPACE Flight, Life support - Yaxdovsky, V. I.
SPACE Flight, Life support, - Sisakian, N. M.
SPACE Flight, Life support system, Environment - Stem, J. A.
SPACE Flight, Life support system, Environment - Christensen, G. M.
SPACE Flight, Life support system, Environment - Pilgrim, A. J.
SPACE Flight, Life support, Physiology, Environment, Chlorella,
Weightlessness, Radiation, Human - Sisakian, N. M.
SPACE Flight, Logistics aspects, Biomedical aspects - Morgan, Thomas E., Jr.
SPACE Flight, Manned, Space station, Crew - Lowry, Romney H.
SPACE Flight, Microorganisms, Closed ecological system - Ingram, William T.
SPACE Flight, Monkey - Chemplin, G. E.
SPACE Flight, Monkey - Hixson, W. E.
SPACE Flight, Monkey - Holmes, M. H.
SPACE Flight, Monkey - Pedigo, G. P.
SPACE Flight, Nutrition - Akhlebinskiy, K. S.
SPACE Flight, Nutrition, Food - Bychkov, V. P.
SPACE Flight, Nutrition, Food - Ushakov, A. S.
SPACE Flight, Pathological, Animals - Petrukhin, V. G.
SPACE Flight, Pathology, Human - Pletcher, Kenneth E.
SPACE Flight, Photochemistry, Photosynthesis - Khazanov, V. S.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
Bereyina, N. M.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
Gurskiy, A. V.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
Khazanov, V. S.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
OSTAPOVICH, L. F.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
Romanchikova, M. L.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
Shakov, A. A.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
Shibrya, G. I.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
Sokolov, Yu. L.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation -
Stanko, S. A.
SPACE Flight, Photochemistry, Photosynthesis, Plants, Radiation,
Genetics - Breslavets, L. P.
SPACE Flight, Physiology - Escobar, Adolfo de Bordons
SPACE Flight, Physiology, Conditions, Human, Cosmonauts, Training,
Selection, Life sciences, Medicine - Volynkin, Y. M.
SPACE Flight, Physiology, Conditions, Radiation - Saksonov, P. P.
SPACE Flight, Physiology, Environment, Capsule, Medicine, Gravity,
Acceleration, Microorganisms, Training, Weightlessness, Ear,
Brain, Blood, Dog, Sanitary engineering, Waste, Bioengineering,
Biotelemetry - Gazenko, O. G.
SPACE Flight, Physiology, Feces - Wick, Emily L.
SPACE Flight, Physiology, Feces - Goldblith, Samuel A.
SPACE Flight, Physiology, Food - Lachance, Poul A.
SPACE Flight, Physiology, Food - Brown, D. L.

SPACE Flight, Physiology, Food - Crawford, D. C.
SPACE Flight, Physiology, Food - Viitanen, V. K.
SPACE Flight, Physiology, Human - Volynkin, Yu. M.
SPACE Flight, Physiology, Human - Parin, V. V.
SPACE Flight, Physiology, Human - Yazdovskiy, V. I.
SPACE Flight, Physiology, Hygiene - Spasskiy, V. A.
SPACE Flight, Psychology, Senses - Gorbov, F.
SPACE Flight, Physiology, Space medicine - Sisakyan, N. M.
SPACE Flight, Physiology, Space medicine - Yazdovskiy, V. I.
SPACE Flight, Physiology, Space medicine - Gazenko, O. G.
SPACE Flight, Physiology, Space medicine - Malkin, V. B.
SPACE Flight, Pilot, Manned, Aerospace medicine - Hirsch, Carl
SPACE Flight, Pilot, Manned, Aerospace medicine - Nachemson, Alf
SPACE Flight, Pilot, Training - Chkhaidze, L. V.
SPACE Flight, Plant, Yeast - Parfenov, G. P.
SPACE Flight, Plant, Yeast - Lukin, A. A.
SPACE Flight, Plant, Yeast - Kovayazin, N. V.
SPACE Flight, Problems, Radiation - Antipov, V. V.
SPACE Flight, Problems, Radiation - Dobrov, N. N.
SPACE Flight, Problems, Radiation - Lebedinskiy, A. V.
SPACE Flight, Problems, Radiation - Nefedov, Yu. G.
SPACE Flight, Problems, Radiation - Frank, G. M.
SPACE Flight, Problems, Radiation - Saksonov, P. P.
SPACE Flight, Problems, Radiation - Yusken, John
SPACE Flight, Psychology, Senses - Gorbov, F.
SPACE Flight, Radiation, Aerospace medicine - Schwichtenberg, A. H.
SPACE Flight, Radiation, Cells - Roberts, Thomas L.
SPACE Flight, Radiation, Hazards - Schaefer, Hermann J.
SPACE Flight, Radiation, Microorganisms - Wynne, E. Statton
SPACE Flight, Radiation, Photosynthesis, Radiobiology, Biotelemetry -
Crawford, George W.
SPACE Flight, Radiation, Physiology - Fisher, H. K.
SPACE Flight, Radiation, Physiology - Tamplin, A. R.
SPACE Flight, Requirements, Life support system - Hall, A. L.
SPACE Flight, Seeds, Plants - Khvostova, V. V.
SPACE Flight, Seeds, Plants - Prokof'yeva-Bel'govskaya, A. A.
SPACE Flight, Seeds, Plants - Sidorov, B. N.
SPACE Flight, Seeds, Plants - Sokolov, N. N.
SPACE Flight, Senses, Eye - Strughold, Hubertus
SPACE Flight, Senses, Eye - Gray, R. F.
SPACE Flight, Senses, Neurology - Kuznetsova, N. A.
SPACE Flight, Senses, Neurology - Livshits, N. N.
SPACE Flight, Senses, Neurology, Radiation, Ear, Guinea pig, CNS -
Apanasenko, Z. I.
SPACE Flight, Senses, Neurology, Rats, Satellite - Luk'yanova, L. D.
SPACE Flight, Space, Exobiology, Moon - Sagan, Carl
SPACE Flight, Space biology, Microorganisms - Gazenko, O. G.
SPACE Flight, Space biology, Space cabin - Welch, B. E.
SPACE Flight, Space biology, Suits, Viruses - Bakulev, A.
SPACE Flight, Space capsules, Physiology - Gilbert, L.
SPACE Flight, Space capsule, Radiation - Dole, S. H.
SPACE Flight, Space capsules, Sanitary engineering - Mattoni, Rudolf H.
SPACE Flight, Space capsules, Sanitary engineering, Biosatellite,
Bioengineering - Sullivan, George H.

SPACE Flight, Space capsule, Training, Manned, Space station -
Eggleson, John M.

SPACE Flight, Space environment - Hord Richard A.

SPACE Flight, Space environment, Gravitation - Meineri, G.

SPACE Flight, Space environment, Radiation - Schaefer, Hermann J.

SPACE Flight, Space environment, Space capsule - Beson, E. E.

SPACE Flight, Space environment, Space capsules - Dickey, M. P.

SPACE Flight, Space environment, Vibration - Delucchi, M. R.

SPACE Flight, Space environment, Vibration - Kado, R. T.

SPACE Flight, Space environment, Vibration - Winters, W. D.

SPACE Flight, Space environment, Space capsules - Dickey, M. P.

SPACE Flight, Space medicine - Gazeiko, O. G.

SPACE Flight, Space medicine - Bayevski, R. M.

SPACE Flight, Space medicine, Environment - Peteovich, G. V.

SPACE Flight, Space medicine, Heart, Bioengineering, Psychology,
Human - Akulinichev, I. T.

SPACE Flight, Space medicine, Physiology - Parin, V. V.

SPACE Flight, Space medicine, Physiology - Yazdovsky, V. I.

SPACE Flight, Space medicine, Physiology, Biosatellite - Green, Cloid D.

SPACE Flight, Space medicine, Radiation - Prince, John E.

SPACE Flight, Space medicine, Telemeter, System - Akulinichev, I.

SPACE Flight, Space medicine, Telemeter, System, Acceleration,
Respiration, Decompression, Heart Human - Agadzhanyan, N.

SPACE Flight, Space medicine, Telemetry, Heart, Dogs, Circulatory
system, Brain, Blood - Bayevskiy, R. M.

SPACE Flight, Space medicine, Urine - Beutel, Jack

SPACE Flight, Space program, Life sciences - Sisakyan, N. M.

SPACE Flight, Spaceships, Radiation - Pisarenko, N. F.

SPACE Flight, Spaceships, Radiation - Nesterov, V. Ye.

SPACE Flight, Spaceships, Radiation - Shavrin, P. I.

SPACE Flight, Spaceship, Radiation - Savenko, I. A.

SPACE Flight, Telemetry - Bayevskiy, R. M.

SPACE Flight, Spores, Spaceships - Wynne, Staten E.

SPACE Flight, Spores, Spaceships - Cordaron, Joseph T.

SPACE Flight, Spores, Sterilization of craft - Cordaro, Joseph T.

SPACE Flight, Tissue, Culture - Katzberg, Allan A.

SPACE Flight, Tolerance, Radiation - Houghton, Karl H.

SPACE Flight, Vision, Manned - Brissenden, Roy E.

SPACE Flight, Vision, Manned - Pennington, Jack E.

SPACE Flight, Vision, Senses - Miller, James W.

SPACE Flight, Weightlessness - Mueller, Donald D.

SPACE Flight, Weightlessness - Simons, John C.

SPACE Flight, Weightlessness, Bibliography - Price, J. F.

SPACE Flight, Weightlessness, Physiology - King, Barry G.

SPACE Flight, Weightlessness, Physiology - Patch, Cephas T.

SPACE Flight, Weightlessness, Physiology - Shinkman, Paul G.

SPACE, Genetics - DeBusk, A. Gib

SPACE Hazards, Environment, Radiation - Maqsood, M.

SPACE Hazards, Hygiene - Boysen, John E.

SPACE Hazards, Physiochemistry, Toxicity - Smith, Douglas E.

SPACE Hazards, Radiation, Space flight - Shepherd, L. R.

SPACE Hazards, Toxicity, Environment - Leeuwe, H.

SPACE Medicine - Jongbloed, Jacob

SPACE Medicine - Vogel, J.

SPACE Medicine, Acceleration, Impact - Headley, Robert N.
SPACE Medicine, Acceleration, Impact - Lokatos, George
SPACE Medicine, Algae, Animal study - Rehkemper, J. A.
SPACE Medicine, Bioengineering, Closed ecological system - Willard, T. L.
SPACE Medicine, Biomedical aspects - Lovelace, W. Randolph, II
SPACE Medicine, Biomedicine - Schwichtenberg, A. H.
SPACE Medicine, Closed ecological system, Space environment -
Keating, Donald A.
SPACE Medicine, Closed ecological system, Space environment -
Roundy, Robert W.
SPACE Medicine, Decompression - Hitchcock, Fred A.
SPACE Medicine, Environment, Space biology - Parin, V. V.
SPACE Medicine, Escape, Biomedical evaluation - Tany, P. C.
SPACE Medicine, Heart, Weightlessness - Hammer, Lois R.
SPACE Medicine, Human Acceleration - Bates, George
SPACE Medicine, Human, Tolerance - Simons, D. G.
SPACE Medicine, Irradiation, Metabolism, Physiology - Clark, Robert T., Jr.
SPACE Medicine, Motion sickness, Problems - Kopanov, V. I.
SPACE Medicine, Motion sickness, Problems, Acceleration, Pilot, Space
flight - Komendantov, G. L.
SPACE Medicine, Motion sickness, Weightlessness - Kama, W.
SPACE Medicine, Motion sickness, Weightlessness - Simons, J. C.
SPACE Medicine, Muscles, Weightlessness - Gerd, M. Z.
SPACE Medicine, Muscles, Weightlessness - Gurodskiy, N. N.
SPACE Medicine, Physiology, Bibliography - Kenk, Roman
SPACE Medicine, Physiology, Bibliography - Jacobius, Arnold J.
SPACE Medicine, Physiology, Space flight - Green, Cloid D.
SPACE Medicine, Physiology, Space flight - Parin, V. V.
SPACE Medicine, Physiology, Space flight - Yazdovsky, V. I.
SPACE Medicine, Psychophysics, Weightlessness - Haber, Heinz
SPACE Medicine, Radiation, Space flight - Prince, John E.
SPACE Medicine, Space environment, Feeding - Kas'yan, I.
SPACE Medicine, Space environment, Feeding - Golikov, A.
SPACE Medicine, Space flight - Akulinichev, I. T.
SPACE Medicine, Space flight - Bayevski, R. M.
SPACE Medicine, Space flight - Gazeiko, O. G.
SPACE Medicine, Space flight, Bibliography - Beischer, Dietrich E.
SPACE Medicine, Space flight, Bibliography - Fregly, Alfred R.
SPACE Medicine, Space flight, Closed ecological system - Bosse, Roland A.
SPACE Medicine, Space flight, Dogs - Parin, V. V.
SPACE Medicine, Space flight, Physiology - Yazdovskiy, V. I.
SPACE Medicine, Space flight, Physiology - Gazeiko, O. G.
SPACE Medicine, Space flight, Physiology - Malkin, V. B.
SPACE Medicine, Space flight, Physiology - Sisakyan, N. M.
SPACE Medicine, Space probes, Bioengineering, Closed ecology -
Clamann, Hans G.
SPACE Medicine, Telemeter system, Space flight - Akulinichev, I.
SPACE Medicine, Telemeter system, Space flight - Agadzhanyan, N.
SPACE Medicine, Urine, Space flight - Beutel, Jack
SPACE Medicine, Weightlessness, Bibliography - Repass, Eleanor
SPACE Medicine, Weightlessness, Closed ecological system - Hearld, A. B.
SPACE Medicine, Weightlessness, Closed ecological system - Metzger, C. A.
SPACE Probe - Beerer, J. G.
SPACE Probe - Wilson, A. G.

SPACE Probes, Space medicine - Clamann, Hans G.
SPACE Program - Bruce, F. R.
SPACE Program - Cottrell, W. B.
SPACE Program - Fish, B. R.
SPACE Program - Guthrie, C. E.
SPACE Program - Haythorn, W. W.
SPACE Program - Maienschein, F. C.
SPACE Program - Matheson, W. E.
SPACE Program - Pickrel, Evan Wilken
SPACE Program, Aerospace medicine - Mohler, S. R.
SPACE Program, Aerospace medicine - White, Stanley C.
SPACE Program, Bioengineering, Life science - Bowen, I. G.
SPACE Program, Bioengineering, Life science - Chiffelle, T. L.
SPACE Program, Bioengineering, Life science - Richmond, D. R.
SPACE Program, Bioengineering, Life science, Overpressures - Goldizen, V. C.
SPACE Program, Britain - n.a. (00238)
SPACE Program, Environment, Suit - Irvine, Thomas F., Jr.
SPACE Program, Gravitation - Evans, C. B. S.
SPACE Program, Gravitation, Ecological system, Bioengineering -
Konecci, E. B.
SPACE Program, Human, Space capsule - Ulvedal, Frode
SPACE Program, Human, Space capsule - Welch, B. E.
SPACE Program, Human, Space capsule - Hartman, Bryce O.
SPACE Program, Human, Space capsule - McKenzie, Richard E.
SPACE Program, Human, Space capsule - Morgan, Thomas E., Jr.
SPACE Program, Life sciences, Space flight - Sisakyan, N. M.
SPACE Program, Life sciences, Space - Horowitz, Norman H.
SPACE Program, Physiology, Metabolism - Burns, Neal M.
SPACE Program, Physiology, Metabolism - Bosee, Roland A.
SPACE Program, Physiology, Metabolism - Santamaria, L. J.
SPACE Program, Plant - Kazykine, Victor
SPACE Program, Plant, Virus - Daye, G. T., Jr.
SPACE Program, Plant, Virus - Hellman, A.
SPACE Program, Plant, Virus - Jordan, H. W.
SPACE Program, Problems - Yazdovskii, V. I.
SPACE Program, Psychology, Human - Grether, Walter F.
SPACE Program, Radiation - Saylor, W. P.
SPACE Program, Radiation - Winer, D. E.
SPACE Program, Radiation - Eiwen, C. J.
SPACE Program, Satellite - Messi,
SPACE Program, Space exploration - Bejuke, Walter M.
SPACE Program, Tracking task, Chimpānzē - Wilson, Gordon L.
SPACE Program, Virus, Plant - Kalter, S. S.
SPACE Research - Livingston, R. B.
SPACESHIP, Microorganism, Cells - Antipov, V. V.
SPACESHIP, Microorganism, Cells - Gyurdzhian, A. A.
SPACESHIP, Microorganism, Cells - Pekhov, A. P.
SPACESHIP, Microorganism, Cells - Mayskiy, I. M.
SPACESHIP, Microorganism, Cells - Zhukov-Verezhnikov, N. N.
SPACESHIP, Microorganisms, Cells, Microbiology, Space flight -
Pekhov, A. P.
SPACESHIP, Microorganism, Cells, Microbiology, Space flight, Histology -
Rybakov, N. I.

SPACESHIP, Microorganisms, Cells, Physiology, Humans, Life support, Radiation, Gravity, Acceleration, Closed ecological system, Microbiology, Space flight, Weightlessness, Effects, Decompression, Space cabin, Dog, Cosmonauts, Training, Selection, Muscles, Senses - Yazdovskiy, Vladimir, Ivanovitch

SPACESHIP, Microorganisms, Cells, Space flight, Microbiology, Histology - Zhukov-Verezhnikov, N. N.

SPACESHIPS, Microorganisms, Extraterrestrial life - Cardaro, Joseph T.

SPACESHIPS, Radiation, Effect, Microorganisms, Cells, Space flight, Blood, Urine, Dog, Sanitary engineering, Waste, Microbiology, Bioengineering, Mice, Genetics, Metabolism, Physiology - Gyurdzhian, A. A.

SPACESHIPS, Radiation, Space flight, Earth - Nesterov, V. Ye.

SPACESHIP, Radiation, Space flight, Earth - Pisarenko, N. F.

SPACESHIPS, Radiation, Space flight, Earth - Shavrin, P. I.

SPACESHIP, Radiation, Space flight, Earth - Savenko, I. A.

SPACESHIPS, Space flight, Spores - Cordaron, Joseph T.

SPACESHIPS, Space flight, Spores - Wynne, Staten E.

SPACE Station - Beck, H. D.

SPECTRAL Energy Threshold - Fletcher, D. E.

SPECTRAL Energy Threshold - Phares, L.

SPEECH, Weightlessness, Bioengineering - Borzshchevskiy, Ya.

SPEECH, Weightlessness, Bioengineering - Belyalcov, G. M.

SPEECH, Weightlessness, Bioengineering - Gurovskiy, N. N.

SPEECH, Weightlessness, Bioengineering - Kuznetsov, V. S.

SPEECH, Weightlessness, Bioengineering - Yukanov, Ye. M.

SPORES, Exobiology, Spacecraft sterilization - Davis, Norman S.

SPORES, Exobiology, Spacecraft sterilization - Silverman, Gerald J.

SPORES, Radiation, Cells - Prince, John E.

SPORES, Spaceships, Space flight - Cordaron, Joseph T.

SPORES, Spaceships, Space flight - Wynne, Staten E.

STERILIZATION, Environmental design - Comunizis, Marcus G.

STERILIZATION, Food, Algae - Vanderveen, John E.

STERILIZATION, Microorganisms, Plant - Phillips, Charles R.

STERILIZATION, Space capsule - Jaffe, L. D.

STERILIZATION, Space capsule, Exobiology - Davies, R. W.

STRESS, Space flight - Hall, Charles E.

SUBGRAVITY, Weightlessness, Radiation - Wolczek, Olgierd

SUIT, Physiology, Environment - Wilson, Charles L.

SUIT, Project Mercury, Environment - Burns, Neal M.

SUIT, Project Mercury, Environment - Burdick, R. L.

SUITS, Space flight, Space biology - Bakulev, A.

SUIT, Space program, Environment - Irvine, Thomas F., Jr.

SUIT, Urine, Environment - Redden, Robert J.

SURVIVAL, Moon, Psychology, Biophysical factors - Helvey, Tibor Charles

SURVIVAL, Radiation, Physiology - Yarmonenko, S. P.

SURVIVAL, Radiation, Physiology - Avrunina, G. A.

SURVIVAL, Radiation, Physiology - Govorum, R. D.

SURVIVAL, Radiation, Physiology, Blood, Space flight, Enzyme, Pharmacology, Oxygen effect - Shashkov, V. S.

SURVIVAL, Reliability techniques - Youtcheff, John S.

SURVIVAL, Space cabin - Bernard, S.

SURVIVAL, Space cabin - Boiteau, H.

TASK Performance, Space crews - Peters, Julius
TELEMETER System, Space flight, Space medicine - Agadzhanyan, N.
TELEMETER System, Space flight, Space medicine - Akulinichev, I.
TELEMETRY, Physiology, Radiation - Mackay, R. Stuart
TELEMETRY, Space flight - Bayevskiy, R. M.
TELEMETERING System, Radiation - Simons, David G.
TELEPATHY - Kantorovich, M.
TEMPERATURE Control, Insects, Exobiology - Il'inskaya, N. B.
THERMAL Protection Systems - Hermach, C. A.
TISSUE, Culture, Space flight - Katzberg, Allan A.
TISSUE, Environment, Radiation - Schaefer, Hermann J.
TISSUE, Gaseous environment, Rats - Marotta, S. F.
TISSUE, Oxygen, Heat regulation - Cain, Stephen M.
TISSUE, Oxygen, Heat regulation - Ellis, James P., Jr.
TISSUE, Problems, Space, Closed ecological systems, Pressure,
 Respiration, Oxygen, Brain - Kovalenko, Ye. A.
TISSUE, Radiation - Chudov, L. A.
TISSUE, Radiation - Dolgov, Ye. G.
TISSUE, Radiation - Impol'skii, Pavel Aurum Aronovich
TISSUE, Radiation - Kogan A. M.
TISSUE, Radiation - Petrov, G. G.
TISSUE, Radiation, Aerospace medicine - Arsenault, Claudette
TISSUE, Radiation, Aerospace medicine - Straile, William E.
TISSUE, Radiation, Aerospace medicine - Chase, Herman B.
TISSUE, Radiation, Aerospace medicine - Straile, William E.
TISSUE, Radiation, Environment - Tessmer, Carl F.
TISSUE, Radiation, Mammal - Katzberg, Allan A.
TISSUE, Respiration, Rat - Duckworth, Marjorie W.
TISSUE, Space flight, Human - More, Llewellyn H.
TISSUE, Space flight, Human - Castro, Anthony E.
TRAINING, Space flight, Pilot - Chkhaidze, L. V.
TOLERANCE, Radiation, Space flight - Houghton, Karl H.
TOLERANCE, Space medicine, Human, Radiation, Biotelemetry, Animal
 studies, Subgravity - Simons, David G.
TOXICITY - Kennebeck, M., Jr.
TOXICITY - Longley, M. Y.
TOXICITY - Merriweather, E.
TOXICITY - Miller, D. F.
TOXICITY - Nole, D. A.
TOXICITY - Roby, H.
TOXICITY - Robinson, L.
TOXICITY - Wetherington, R.
TOXICITY, Behavior, Monkey - Back, Kenneth C.
TOXICITY, Environment - Reeves, Johnie L.
TOXICITY, Exobiology, Spacecraft sterilization - Jensen, Jens A.
TOXICITY, Human, Gaseous environment - Sivertsev, I. I.
TOXICITY, Life support systems - Tamas, Anton
TOXICITY, Physiology, Urine, Physiochemistry, Monkey, Behavior -
 Thomas, Anthony A.
TOXICITY, Space cabin - Schaefer, Karl E.
TOXICITY, Space hazards, Closed ecology, Gaseous atmosphere - Jaffe, L. D.
TOXICITY, Space hazards, Gaseous environment - Estes, H. D.
TOXICITY, Space hazards, Physiochemistry - Smith, Douglas E.
TOXICITY, Space hazards, Rats, Enzymes, Acceleration - Lalli, Giuseppe
TOXICITY, Senses, Neurology - Cianko, G. M.

TOXICITY, Senses, Neurology - Walter, R. D.
TOXICITY, Senses, Neurology - Schoettlin, C. E.
TOXICITY, Space capsules, Algae - Lubitz, Joseph A.
TOXICOLOGY, Exobiology, Spacecraft sterilization - Hayes, Wayland J., Jr.
TOXICOLOGY, Exobiology, Spacecraft sterilization - Rasmussen, Warren A.
TOXICOLOGY, Exobiology, Spacecraft sterilization - Stein, William J.
TOXICOLOGY, Radiation, Physiology - Langham, Wright H.
TRACKING Performance - Futterweit, A.
TRACKING Performance - Nicholson, F. T.
TRACKING Task, Chimpanzee, Space program - Wilson, Gordon L.
TRAINING, Psychobiology, Weightlessness, Space medicine - Balke, Bruno

URINE - Smith, J. Douglas
URINE, Closed ecology - Brown, Daniel L.
URINE, Closed ecology - Lindstrom, Robert W.
URINE, Environment, Suit - Redden, Robert
URINE, Heat regulation, Physiology - Kanter, G. S.
URINE, Physiochemistry, Physiology - Diamond, Philip
URINE, Space environment, Closed ecological system - Slonim, A. R.
URINE, Space environment, Closed ecological system - Hallam, A. P.
URINE, Space flight, Space medicine - Beutel, Jack
URINE, Waste, Closed ecology - Belasco, Norman
URINE, Waste, Closed ecology - Rudek, Fred P.

VENUS, Mars, Planet - Sinton, William M.
VENUS, Mars, Rockets, Space environment, Space capsule - Ehricke, Krafft A.
VIBRATION - Coermann, Rolf R.
VIBRATION - Magid, E. B.
VIBRATION - Ziegenruecker, G. H.
VIBRATION, Acceleration, Bibliography - Buckhout, Robert
VIBRATION, Human - Guignard, J. C.
VIBRATION, Aerospace medicine, Human - Linder, Gerald S.
VIBRATION, Effects, Dogs, Training, Space flight, Animals -
 Georgiyevskiy, V. S.
VIBRATION, Human, Impact - Von Gierke, Henning E.
VIBRATION, Human, Impact - Goldman, David E.
VIBRATION, Noise, Man, Senses, Environment - Arkad'yevskiy, A.A.
VIBRATION, Respiration, Human - Hoover, George N.
VIBRATION, Respiration, Human - Ashe, W. F.
VIRUS, Plant, Space program - Kalter, S. S.
VIRUS, Space program, Plant - Jordan, H. W.
VIRUS, Space program, Plant - Hellman, A.
VIRUS, Space program, Plant - Daye, G. T., Jr.
VISION - Biernson, George
VISION - Lagerwerff, J. M.
VISION, Gravity, Senses - Pigg, Leroy D.
VISION, Gravity, Senses - Kama, William N.
VISION, Senses, Eyes - Miller, Earl Fred.
VISION, Senses, Eye - Warren, B. H.
VISION, Senses, Eye - Roman, J. A.
VISION, Senses, Space flight - Miller, James W.
VISION, Space flight - Ercoles, A. M.
VISION, Space flight - Fiorentini, A.
VISION, Space flight - Ronchi, L.
VOSTOK Spacecraft, Space flight - Gordon, L. K.
VOSTOK Spacecraft, Space flight - Vysotskii, V. G.
VOSTOK Spacecraft, Space flight, Genetics, Radiation - Delone, N. L.

WASTE, Microorgansims, Space capsule - Bogan, R. H.
WASTE, Physiology, Bioengineering - Moyer, James E.
WASTE, Space capsule, Microorganisms - Chapman, D. D.
WASTES, Plant, Chlorella - Oioes, Wesley O.
WATER Immersion, Tracking performance, Acceleration, Spectral energy thresholds, Biodynamics - Brown, John L.
WEIGHT, Effects, Physiology - Kelly, C. F.
WEIGHTLESSNESS - Benedikt, Elliott T.
WEIGHTLESSNESS - Cain, C. C.
WEIGHTLESSNESS - Halliburton, Robert W.
WEIGHTLESSNESS - Letko, William
WEIGHTLESSNESS - Levine, Raphael B.
WEIGHTLESSNESS - Stone, R. W., Jr.
WEIGHTLESSNESS = Minkewitzius, D.
WEIGHTLESSNESS - Walrath, J.
WEIGHTLESSNESS, Aerospace medicine - Wendt, Gerald R.
WEIGHTLESSNESS, Behavior, Human, Environment, Space capsule, Closed ecological system - Zhuravlev, B. A.
WEIGHTLESSNESS, Behavior, Senses - Brown, Edward
WEIGHTLESSNESS, Behavior, Senses - Flinn, Don E.
WEIGHTLESSNESS, Bibliography, Space medicine - Repass, Eleanor
WEIGHTLESSNESS, Bibliography, Space flight - Price, J. F.
WEIGHTLESSNESS, Bioengineering, Speech - Belyalcov, G. M.
WEIGHTLESSNESS, Bioengineering, Speech - Gurovskiy, N. N.
WEIGHTLESSNESS, Bioengineering, Speech - Kuznetsov, V. S.
WEIGHTLESSNESS, Bioengineering, Speech - Yukanov, Ye. M.
WEIGHTLESSNESS, Bioengineering, Speech, Air sickness - Borzhshchevskiy, Ya.
WEIGHTLESSNESS, Brain, Blood - Benua, N. N.
WEIGHTLESSNESS, Brain, Blood - Graunov, O. V.
WEIGHTLESSNESS, Closed ecological system, Space flight, Biotelemetry, Blood, Gravitation, Dogs, Heart - Baevskii, R. M.
WEIGHTLESSNESS, Closed ecological system, Space medicine - Metzger, C. A.
WEIGHTLESSNESS, Closed ecological system, Space medicine - Hearld, A. B.
WEIGHTLESSNESS, Ear - Bronshteyn, A. A.
WEIGHTLESSNESS, Effects, Senses, Eye, Vision, Physiology, Bioengineering - Roman, James A.
WEIGHTLESSNESS, Environment - Generales, Constantine D. J., Jr.
WEIGHTLESSNESS, Environment - Wade, James E.
WEIGHTLESSNESS, Environment - Yukanov, E. M.
WEIGHTLESSNESS, Environment, Acceleration - Chambers, Randall M.
WEIGHTLESSNESS, Environment, Acceleration - Coburn, K. R.
WEIGHTLESSNESS, Environment, Heart, Space flight, Cat - Gerathewohl, S. J.
WEIGHTLESSNESS, Environment, Physiology - Beckman, E. L.
WEIGHTLESSNESS, Fish, Birds, Mice, Rats, Rabbits, Cat, Dog - L. Kitoyev-Smyk
WEIGHTLESSNESS, Gravitation - Puga, Carlos Raul
WEIGHTLESSNESS, Gravity - Brown, Edward L.
WEIGHTLESSNESS, Heart rate - Gerathewohl, Siegfried J.
WEIGHTLESSNESS, Human, Zero] gravity, Animals - Beckh, H. J.
WEIGHTLESSNESS, Human, Environment - Graveline, Duane W.
WEIGHTLESSNESS, Human, Environment - Gerathewohl, Siegfried J.
WEIGHTLESSNESS, Neurology, Rat, Physiology, Bioengineering - Violette, F.
WEIGHTLESSNESS, Physiology, Environment - Graveline, Duane E.
WEIGHTLESSNESS, Physiology, Environment - Benson, Victor G.
WEIGHTLESSNESS, Physiology, Environment - Barnard, George W.
WEIGHTLESSNESS, Physiology, Environment - King, Barry G.

WEIGHTLESSNESS, Physiology, Gravity - Timakov, V.
WEIGHTLESSNESS, Physiology, Human - Hanna, Thomas D.
WEIGHTLESSNESS, Physiology, Human - Lawton, Richard W.
WEIGHTLESSNESS, Physiology, Space flight - Patch, Cephas T.
WEIGHTLESSNESS, Physiology, Space flight - Shinkman, Paul G.
WEIGHTLESSNESS, Physiology, Space flight, Environment - King, Barry G.
WEIGHTLESSNESS, Psychology, Space biology - Midler, A.
WEIGHTLESSNESS, Physiology, Sub-gravity - Hawkins, Willard R.
WEIGHTLESSNESS, Radiation, Embryology - Neifakh, A.
WEIGHTLESSNESS, Radiation, Physiology - Musacchia, X. J.
WEIGHTLESSNESS, Senses, Environment - Word, Julian E.
WEIGHTLESSNESS, Senses, Physiology, Sub-gravity - Stallings, H. D., Jr.
WEIGHTLESSNESS, Space flight - Mueller, Donald D.
WEIGHTLESSNESS, Space flight - Simons, John C.
WEIGHTLESSNESS, Space flight, Effects, Gravitation - Gurfinkel', V. S.
WEIGHTLESSNESS, Space flight, Effects, Gravitation - Popov, V. I.
WEIGHTLESSNESS, Space flight, Environment - Belleville, Richard E.
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WEIGHTLESSNESS, Space flight, Environment - Augerson, Williams S.
WEIGHTLESSNESS, Space flight, Physiology, Gravitation, Effects -
Gorshkov, A. I.
WEIGHTLESSNESS, Space medicine, Heart - Hammer, Lois R.
WEIGHTLESSNESS, Space medicine, Motion sickness - Simons, J. C.
WEIGHTLESSNESS, Space medicine, Motion sickness, Senses, Vision,
Gravity - Kama, William N.
WEIGHTLESSNESS, Space medicine, Muscles - Gurodskiy, N. N.
WEIGHTLESSNESS, Space medicine, Muscles, Life support system - Gerd, M. Z.
WORK-REST Cycle, Metabolism - Byers, Vincent W.

YEAST, Space flight, Plant - Kovyazin, N. V.
YEAST, Space flight, Plant - Lukin, A. A.
YEAST, Space flight, Plant - Parfenov, G. P.
YEAST, Temperature control, Exobiology - Rumyantsua, V. M.

ZERO-GRAVITY - Cummings, J. W.
ZERO-GRAVITY - Steinle, Hans F.
ZERO-GRAVITY, Cell, Physiology, Ameba - Gell, Charles F.
ZERO-GRAVITY, Cell, Physiology, Ameba - Phillip O'B.

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Brooks Air Force Base, Texas

USAF, School of Aerospace Medicine
Stress and Fatigue Section
Psychobiology Branch
Neuropsychiatry Department
Brooks Air Force Base, Texas

USAF, School of Aviation Medicine
Department of Internal Medicine
Brooks Air Force Base, Texas

USAF, School of Aviation Medicine
Physiology-Biophysics Branch
Brooks Air Force Base, Texas

USAF, School of Aviation Medicine
Randolph Air Force Base, Texas

USAF, Systems Command
Aeronautical Systems Division
Biothermal Branch
6570th Aerospace Medical Research Labs.
Wright-Patterson Air Force Base, Ohio

USAF, Aeronautical Systems Division
Support Techniques Branch
Flight Accessories Laboratory
Wright-Patterson Air Force Base, Ohio

USAF, Systems Command
Holloman Air Force Base, New Mexico

USAF, Flight Test Center
Edwards Air Force Base, California

U. S. Army, Medical Research Laboratory
Ft. Knox, Kentucky

U. S. Army Medical Research and Nutrition
Laboratory
Fitzsimons General Hospital
Denver, Colorado

U. S. Army Ordnance Missile Command
Huntsville, Alabama

U.S. Army
Walter Reed Army Institute of Research
Walter Reed Army Medical Center
Washington, D. C.

U.S. Atomic Energy Commission
Division of Biology and Medicine
Washington, D. C.

U.S. Naval Air Development Center
Aviation Medical Acceleration Laboratory
Johnsville, Pennsylvania

U.S. Naval Missile Center
Point Mugu, California

U.S. Naval Missile Center
Life Science Department
Point Mugu, California

U.S. Naval Radiological Defense Lab.
San Francisco, California

U.S. Naval School of Aviation Medicine
Pensacola, Florida

U.S. Naval School of Aviation Medicine
Medical Center
Pensacola, Florida

U.S. Naval School of Aviation Medicine
U.S. Naval Aviation Medical Center
Biophysics Branch
Pensacola, Florida

U.S. Naval School of Aviation Medicine
Department of Physical Chemistry
Pensacola, Florida

U.S. Naval Submarine Base
New London, Connecticut

U.S. Navy Electronics Laboratory
San Diego, California

U.S. Navy Special Projects Office
Washington, D. C.

U.S. Public Health Service
Communicable Disease Center
Toxicology Section
Atlanta, Georgia

Yale University
School of Medicine
New Haven, Connecticut

Victoria University
Department of Geology
Wellington, New Zealand

Wake Forest College
Winston-Salem, North Carolina

Washington University
Seattle, Washington

Wayne State University
Detroit, Michigan

Weizmann Institute of Science
Israel

Western Biological Laboratories
Culver City, California

Western Reserve University
Cleveland, Ohio

Western Reserve University
School of Medicine
Cleveland, Ohio

Whirlpool Corporation
St. Joseph, Michigan

White Mountain Research Station
Big Pine, California

Wilmot Castle Company
Rochester, New York

Wisconsin University
Madison, Wisconsin

Worcester Foundation for Experimental
Biology
Shrewsbury, Massachusetts

Wright Air Development Division
Dayton, Ohio

Wright-Patterson Air Force Base
Behavioral Science Laboratory
Wright-Patterson Air Force Base, Ohio

Wright-Patterson Air Force Base
Biomedical Laboratory
Wright-Patterson Air Force Base, Ohio

Wright-Patterson Air Force Base
Electronics Technology Division
Wright-Patterson Air Force Base, Ohio

ENCLOSURE A

The Parameters of Space Biology

A comparison of this interdisciplinary science as conceived in the United States and in the Union of Soviet Socialist Republics.

C. W. Shilling, M.D.
Joe W. Tyson

Biological Sciences Communication Project
The George Washington University
2000 "P" Street, N.W., Room 700
Washington, D. C., 20036

The accompanying report was prepared as Task 20'7 under Grant NSG-485 from the National Aeronautics and Space Administration and is one of a series of Task reports. January 1, 1964.

THE PARAMETERS OF SPACE BIOLOGY

An examination of the research activities of contractors to the Life Sciences division of the Office of Space Sciences, NASA, reveals an orderly pattern in the derivation of what is now called "Space Biology". Further examination of papers published since January 1, 1961 confirm the opinion that the following terms are adequate "descriptors" of this interdisciplinary science.

A similar examination of the reported activities of Russian life scientists occupies the right column in every case in order that the concepts of the two groups may be compared and contrasted:

	<u>UNITED STATES</u>	<u>USSR</u>
I.	<u>Subdisciplines</u>	<u>Subdisciplines</u>
A.	Evolution	Genetics
	1. Protobiology	
B.	Genetics	Histology
	1. Cytogenetics	Space medicine
C.	Ecology	
	1. Closed ecology	
D.	Physiology	Physiology
	1. Biochemistry	1. Nutrition
	2. Nutrition	
	3. Metabolism	
II.	<u>Biochemical Compounds</u>	<u>Biochemical Compounds</u>
A.	Macromolecules	Amino acids
	1. Carbohydrates	
	a. Sucrose	
	2. Lipids	
	3. Enzymes	
	1. Photosphative enzymes	
	4. Organic acids	
	5. Pyroles	
	6. Aldehydes	
	7. Porphines	
	8. Hemoglobin	
	9. Amino acids	
	a. Nucleic acids	
	i. purines	
	ii. pyrimidines	
	10. Antibiotics	

UNITED STATESIII. Exobiology

- A. Extraterrestrial life
- B. Life detection
 - 1. Sample collection
 - 2. Multivator
 - 3. Vidicon
 - 4. Wolf Trap
- C. Space craft sterilization
 - 1. Sterility indicators
 - 2. In-flight sterilization

IV. Physical Properties of life

- A. Optical activity (of molecules)
 - 1. Optical rotation
- B. Dichroism
 - 1. Gas chromatography
- C. Phase retardation
 - 1. Thermal decomposition
- D. Fractionation
 - 1. Fluorometric analysis

V. Life Indicators

- A. Peptide bands
 - 1. "J" band formation
- B. Hill reaction
- C. Mass spectrum

VI. Cell Fractions

- A. Lamellae
 - 1. Membranes
- B. Episome
- C. Chloroplastids
 - 1. Chloroplasts
- D. Mitochondria
 - 1. DNA and RNA
- E. Chromosome

VII. Activities of cells or tissues

- A. Mitosis
 - 1. Self-replicating
- B. Development
 - 1. Growth
- C. Immune response
 - 1. Viability
- D. Gas Exchange
- E. Stress response
- F. Hydroxylation-cellular processes
- G. Energy capture-cellular processes
 - 1. Intracellular electric potential
- H. Diurnal rhythms
 - 1. Circadian rhythms

USSRIII. Exobiology

- A. Genetics
- B. Histology

C. Space medicineIV. NoneV. NoneVI. NoneVII. Activity of cells or tissues

- A. Immunological reactions

UNITED STATESVII. Activities of cells or tissues
continued

- I. Luminescence
- J. Photosynthesis
- K. Cardiovascular system control
- L. Thermoregulation system control
- M. Hormonal signaling system control
- N. Behavioral system response control

VIII. Organic activities or parts

- A. CNS
 - 1. Brain
 - a. Mental function
 - i. Information storage
 - ii. Memory
 - b. Brain stimulation
 - i. Sensation
 - c. Behavior
 - i. Performance
 - ii. Spatial orientation
 - iii. Perception
 - iv. Illusion
 - d. Learning
 - i. Integration
 - 2. Communication theory
 - a. Speech
 - b. Hearing
- B. Skelton
- C. Wastes

IX. Organisms

- A. Plants
 - 1. Algae
 - a. Chlorella
 - 2. Fungi
 - a. Phycomyces
 - b. Neurospora
 - 3. Yeast
 - 4. Lichens
 - 5. Bacteria
 - a. E. Coli
 - b. Bacterial spores
 - c. T-1 phage
 - d. Hydrogenomonas
 - 1. Hydrogenous cytropha

USSRVIII. Organisms activities or parts

- A. Central nervous system
- B. Hematopoietic organs
- C. Peripheral circulation
 - 1. Blood serotonin level
- D. "Miscellaneous" internal organs
- E. Urine
- F. Cellular adoption

IX. Organisms

- A. Plants
 - 1. Actinomycetes
 - 2. Microbes
 - a. E. coli
 - b. T-1 phage
 - 3. Algae
 - a. Chlorella
 - 4. Yeasts
 - 5. Onion
 - 6. Nigella
 - 7. Peas
 - 8. Wheat
 - 9. Spectral properties of plants

UNITED STATES

IX. Organisms continued

6. Viruses

- a. Enteroviruses
 - i. Influenza virus
 - ii. Poliomyelitis virus
- b. Tobacco mosaic virus

7. Seeds

- a. Sunflower
- b. corn
- c. sugar cane

B. Unicellular Animals

- 1. Ameba
- 2. Paramecium

C. Multicellular Animals

- 1. Planaria
- 2. Cockroach
- 3. Drosophila
- 4. Fish
- 5. Birds
 - a. Pigeons

6. Rodents

- a. Mice
 - a. pocket mouse
- b. Rats
- c. Hamster

7. Rhesus monkey

8. Squirrel monkey

9. Ringtail monkey

10. Bottlenose dolphin

11. Dog

12. Cats

13. Man

X. Miscellaneous

- A. Sea urchin egg
- B. Frog egg
- C. Avian cells
 - 1. Chick embryos
- D. Lymphoid cells, mice
- E. Tissue, brain
 - 1. He La human tissue

USSRX. Miscellaneous

- 1. Human tissue culture
- 2. Skin grafts
- 3. Muscle cells
- 4. Epithelial cells
- 5. Pearl oyster epithelium

UNITED STATESXI. Environmental Factors

A. Environment

- 1. Atmospheres
 - a. low pressure
- 2. Environmental stimuli
 - a. freezing
 - i. immobilization
 - ii. hibernation
 - b. radiation
 - i. electrostatic field
 - ii. light
 - c. rotation
 - d. magnetic fields
 - e. weightlessness
 - i. gravitational fields
 - f. acceleration
 - g. centrifugation

USSRXI. Environmental Factors

- A. Space environment
- B. Gaseous environment
- C. Pressure
- D. Weightlessness
- E. Magnetic fields
- F. Effects of microwaves
- G. Vibration
- H. Centrifugation
- I. Acceleration
- J. Deceleration
- K. Impact
- L. Rocket sleds
- M. Radiation
 - 1. antiradiation drugs
 - 2. Radioprotective "
 - 3. Radiation danger detection (AMN-I bioelement)
 - 4. Cosmic rays
- N. Explosive decompression
- O. Hypoxia
 - 1. Breathing equipment

XII. Bioengineering

A. Telemetry

- 1. Computers
- 2. Electrometer
- 3. Electrostatic tape sampler

B. Biotelemetry

C. Roving vehicles

D. Planetary impact protection

- 1. Impaction device

E. Cyclone centrifuge

F. Aerosol jet sampler

G. Mechanical scrubber

XIII. Biotelemetry

A. Instrumentation

XIII. Geographical Locations

A. Planets

- 1. Jupiter
- 2. Venus
- 3. Mars

B. Meteors

- 1. Chondrites

C. Soils

XIV. None

XIII. Space Probes

- A. Vostok
- B. Capsules
- C. Spaceship cabins
- D. Closed ecology
 - 1. Gas exchange
 - 2. Waste disposal
- E. Space Navigation

XIV. Astronautics

A. Training

INSTITUTIONS AND INDIVIDUALS:
SPACE BIOSCIENCES

in the

Union of Soviet Socialist Republics
(U. S. S. R.)

C. W. Shilling, M.D.
Joe W. Tyson

Biological Sciences Communication Project
The George Washington University
2000 "P" Street, N.W., Room 700
Washington, D. C., 20036

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tration and is one of a series of Task reports.

SPACE BIOSCIENCES IN THE U. S. S. R.

Organizational structure of the various institutional elements concerned with space biology are here presented. It should be emphasized that only those groups with a clear and current responsibility have been included, the omissions occur if reports of their work have not been included in the open literature. Inclusion within this list implies sustained activity, separate funding, and identifiable individuals whose major responsibilities are oriented toward space biology. This directory is a compilation of information from many sources; however, two such are of special significance. The first is the open literature of the primary journals; the second is the review series of Russian origin, PROBLEMS IN SPACE BIOLOGY. A full list of sources can be obtained from the BSCP.

The Soviet Space Agency is "The Interdepartmental Commission for the Coordination and Control of Scientific-Theoretical Works in the Field of Organization and Accomplishment of Interplanetary Communications of the Astronomical Council of the USSR Academy of Sciences." It is often abbreviated ICIC. As its full title implies, it does have Council status within the Academy of Sciences. Its membership is drawn from the 13 Union Republic Academies and the several Institutes.

ICIC and the military share responsibility for launch facilities at KAPUSTIN YAR on the Caspian Sea and ARAL'SK on the Aral Sea. Biological materials have been inserted into the space environment from both these sites. Unconfirmed evidence leads to the belief that biological material has also been a part of IGY payloads lifted from sites in the Artic (Franz Joseph Land) and Antarctic (Mirny).

In addition to organizations and institutions, a directory of life scientists is also included. Of 453 individual scientists associated with space biology, 138 can be identified with a specific research group or institution. The number designation beside those names refers to the corresponding number in the institution directory. 315 individuals have not been located. No effort has been made to standardize endings, (e. g. "iy" or "ic"), nor have titles been omitted in every case. The name appears as it was most frequently found during the search.

Organization at the upper level may be illustrated as follows:

COUNCIL OF MINISTERS OF THE USSR

State Committee on the Coordination
of Research and Development

ACADEMY OF SCIENCES OF THE USSR

Institutes

13 Academies of Science of Union Republics

Institutes

Soviet Space Agency

For further information concerning the organization of science in the USSR, the reader is directed to SCIENTIFIC RESEARCH INSTITUTES OF THE USSR. June 1962. Lexicographic and Terminology Section, Aerospace Information Division, Library of Congress and SCIENTIFIC INSTITUTES AND LABORATORIES IN MOSCOW, June 1963 from the same source.

I. ACADEMY OF SCIENCES USSR, MOSCOW

1. Institute of Biophysics
2. Institute of Atomic Energy imeni KURCHATOVA
3. Institute of Genetics
4. Institute of Higher Nervous Activity
5. Institute of Microbiology
6. Institute of Physics
7. Institute of Chemical Physics
8. Institute of Biochemistry imeni A. N. Bakh A. I. Oparin, Director
9. Institute of Plant Physiology imeni K. A. Timiryazev
c/o Moscow Agricultural Academy imeni K. A. Timiryazev
10. Institute of Nutrition
10a Technological Institute of Food Production

II. ACADEMY OF MEDICAL SCIENCES USSR, MOSCOW

1. Institute of Industrial Hygiene and Occupational Diseases
2. Institute of Normal and Pathological Physiology
2a Academic Council on Physiology
3. Central Scientific Research Institute of Sanitation
& Hygiene imeni F. F. Erismann
4. Institute of Experimental Biology
5. Institute of Biological and Medical Chemistry
6. Central Institute for Postgraduate Medical Training
7. Institute of Neurosurgery imeni N. N. Burdenko

III. MOSCOW STATE UNIVERSITY imeni M. L. Lomonosov, Moscow

1. All-Union Institute of Phytopathology

IV. ALL-UNION INSTITUTE OF PLANT GROWING, MOSCOW

V. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE OF ANTIBIOTICS, MOSCOW

VI. ALL-UNION SCIENTIFIC SOCIETY OF LABORATORY PHYSICIANS, MOSCOW

VII. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE OF MEDICAL INSTRUMENTS
AND EQUIPMENT, MOSCOW

VIII. INSTITUTE OF EXPERIMENTAL AEROMEDICINE, MOSCOW

IX. INSTITUTE OF ANIMAL MORPHOLOGY imeni Severtsov, Moscow

X. MINISTRY OF HEALTH USSR, MOSCOW

1. Central Institute of Hematology & Blood Transfusion
2. Central Scientific Institute of Medical Radiology
3. Central Scientific Research Institute of Health

LENINGRAD

XI. ACADEMY OF SCIENCES USSR, LENINGRAD

1. Institute of Evolutionary Physiology imeni I. M. Sechenov
2. Institute of Cytology
3. Institute of Physiology imeni I. P. Pavlov

XII. MINISTRY OF HEALTH RSFSR, LENINGRAD

1. Leningrad Medical Institute of Sanitation & Hygiene
2. Leningrad Institute of Industrial Hygiene & Occupational Diseases

XIII. INSTITUTE OF BLOOD TRANSFUSION, LENINGRAD

XIV. FIRST LENINGRAD MEDICAL INSTITUTE imeni I. P. Pavlov

- XV. UKRANIAN ACADEMY OF SCIENCES USSR, KIEV
1. Institute of Biochemistry
 2. Institute of Labor Hygiene & Occupational Diseases
- XVI. UKRANIAN INSTITUTE OF INDUSTRIAL HYGIENE & OCCUPATIONAL DISEASES, KHAR'KOV
- XVII. GEORGIAN INSTITUTE OF PHYSICAL CULTURE, TBILISI
- XVIII. ACADEMY OF SCIENCES USSR. BERKHNE-NIKOL'SKOYE
1. Institute of Biology of Water Reservoirs
- XIX. ACADEMY OF SCIENCES, SIBERIAN DEP'T, USSR, NOVOSIBIRSK
1. Institute of Cytology and Genetics
 2. Institute of Experimental Biology and Medicine
- XX. ACADEMY OF SCIENCES, USSR, Tadzhik SSR
1. Pamir Botanical Gardens
- XXI. ACADEMY OF SCIENCES USSR Belorus SSR
1. Biophysics & Isotopes Laboratory
- XXII. ACADEMY OF SCIENCES, Karelian Branch
- XXIII. ALL-UNION SCIENTIFIC SOCIETY OF LABORATORY PHYSICIANS, SOCHI BRANCH (See Moscow)
- XXIV. THE VORONEZH STATE MEDICAL INSTITUTE
- XXV. KISHINEV STATE UNIVERSITY
- XXVI. V. I. LENIN TASHKENT STATE UNIVERSITY
- A. LOCATIONS UNKNOWN:
1. S. M. Kirov Medical Military Academy
 2. Krasnoyarsk Agricultural Institute
 3. I. V. Michurin Fruit and Vegetable Institute
 4. Astronomic Council
 4a Planet Commission
 5. Military Medical Academy of Lenin
 6. Soviet Air Force Scientific Research Testing Institute

LOCATED:

A

AGADZHANYAN, N. A.	II ₂	ASPAANOSENKO, Z. I.	I
ALEKSEYEVA, O. G.	II ₄	ARDASHNIKOV, S. N.	X ₃
ANTIPOV, V. V.	I	ARSEN'YEVA, M. A.	I

B

BAEVSKII, R. M.	II	BLAGONRAOV, A. A.	I
BARABASHEV, N.	A ₄ ^a	BOTVINNIKOV, A. P.	XI
BARAKINA, N. F.	IX	BRANDT, A. V.	III
BAZAITOVA, L. N.	I ₉	BRESLAVETS, L. P.	I ₆
BELOUSOV, A. S.	II ₂	BRESTKIN, A. P.	XI
BENUA, N. N.	XI	BRONSHTEYN, A. A.	XI
BEREZINA, N. M.	I ₆	BYCHKOVSKAYA, I. B.	X ₂
BENZINGER, E. N.	I ₈		

C

CHERNIGOVSKY, Vladimir N.	II ₂	CHIRKOVA, O. O.	V
CHERNOV, G. A.	X	CHKHAIDZE, L. V.	XVII
CHERNOV, Vasili M.	II		

D

DIMANIS, V. I.	II ₂	DUMOVA, A. M.	V
DUBININ, N. P.	I		

F

FEDOROVA, V. L.	II	FREYMAN, G. N.	XI ₁
FEL'DMAN, L. A.	XI ₁		

G

GAZENKO, O. G.	XI ₁	GRAMENITSKIY, P. M.	XI ₁
GINSBURG, I. Sh.	XI ₁	GRAUNOV, O. V.	XI
GLEMBOTSKIY, Ya. L.	I	GURFINKEL', V. S.	IX ₂
GOLDAT, S. Yu.	V	GURSKIY, A. V.	I ₆
GORINZONTOV, P. D.	II ₆		

I

IAMPOL'SKII, P. A. A.	I ₇	ISAKOV, P. K.	II ₂
IANUSHEVSKAIA, M. Ia.	IX	IVANOV, G. I.	XI ₁
ILL'INA, S. S.	I ₁	IVCHENKO, O. I.	XI ₁
IMSHENETSKIY, A. A.	I ₅		

K

KABANOVA, L. A.	I ₁	KHOLODOV, Yu. A.	I ₄
KALAYAYEVA, E. S.	I ₁	KHVOSTOVA, V. V.	I ₁
KAMENSKIY, Yu. I.	X ₃	KLEMPARSKAYA, N. N.	II ₄
KANAVETS, O. L.	I ₁	KOMAROVA, R. S.	X ₂
KAPITANOV, R. A.	VII	KORSHUNOVA, V. S.	III
KAS'YAN, I. I.	II ₂	KRYLOV, A. V.	I ₉
KERKIS, Yu. Ya.	XIX ₁	KUZNETSOVA, M. A.	I ₁
KHAZANOV, V. S.	I ₉		

L

LEBEDEVA, L. I.	XIX ₁	LOZINA-LOZINSKIY, L.K.	XI ₂
LEVITINA, N. A.	X ₃	LUK'YANOVA, L. D.	I ₁
LIBIN, Yu. M.	XI ₁	LUR'YE, G. Ye	X ₃
LIVANOV, M. N.	I ₁	L'VOVA, T. S.	I ₁
LIVSHITS, N. N.	I ₁		

M

MANSUROV, A. R.	II ₂	MEYZEROV, Ye. S.	I ₁
MASLENNIKOVA, V. A.	II ₁	MOSKALENKO, Yu. Ye.	XI ₁
MAYSKIY, I. I.	II ₄	MOZKAROVA, Ye. N.	X ₂

N

NAUMENKO, A. I.	XIV	NICHIPOROVICH, A. A.	I ₉
NEFED'YEVA, N. P.	II ₄	NUZHIDIN, N. I.	I ₃

O

OPARIN, A. I.	I ₈	OSTAPOVICH, L. F.	XX ₁
ORLOVA, N. N.	I ₁		

P

PARFENOV, G. P.	I ₁	PETRUKHIN, V. G.	I
PARIN, V. V.	II ₂	PLEVAKO, N. S.	II ₇
PAVLOV, G. I.	II ₂	PODOPLELOV, I. I.	II ₄
PEKHOV, A. P.	II ₄	POKROVSKY, A. V.	VIII
PETROVA, O. N.	I ₃	POPOV, V. I.	XIX ₂
		PRESMAN, A. S.	X ₃

R

RAKHMANOVA, T. B.	X ₃	RUDNYY, N. M.	XI ₁
RAUSHENBAKH, M. O.	II ₁	RUSANOV, A. M.	X ₂
ROMANCHIKOVA, M. L.	I ₆		

S

SALMONOV, L. P.	XI ₁	SHCHEPOTEVA, Ye. S.	X ₃
SEMENKO, V. Ye.	I ₉	SHIBRYA, G. I.	I ₆
SENDRISHCHEVA, Z. A.	XXIII	SHIRKOVA, G. I.	I ₄
SHAKHBAZIAN, G. Kh.	XV ₂	SHUL'US'TN, A. A.	XXIII
SHAKHOV, A. A.	I ₉	SISCKIAN, N. M.	I ₈
SHAPIRO, N. I.	I ₃	SOKOLOV, Yu, L.	I ₆
SHAPOSHNIKOVA, M. G.	I ₈	SORIN, A. M.	II ₂
SHAPOSHNIKOV, V. N.	I ₅	STANKO, S. A.	I ₉
SHASHKOV, V. S.	II ₁	STROGONOVA, L. Ye.	I ₉

T

TAGEYEVA, S. V.	III	TRUKHIN, N. V.	XVIII
TINYAKOV, G. G.	I ₁	TSIVILASHVILI, A. S.	II ₂
TITOVA, L. K.	XI ₁		

U

UGRYUMOV, Ye. P.	II ₄
------------------	-----------------

V

VASIL'YEN, L. L.	II	VLADIMOROVA, M. G.	I ₉
VERZHBINSKAYA, N. I.	XI ₃	VOLKOVA, A. P.	II ₄
VINNIKOV, Y. A.	XI ₁		

Y

YANOVSKAYA, V. I.	II ₁	YUGANOV, Ye. M.	II ₂
YAZDOVSKIV, V. I.	II ₂		

Z

ZABARZINA, N. B.	I ₅	ZHUKOV, Iu. S.	II ₂
ZAKHAROV, A. F.	II ₄	ZHUKOV-VEREZHNICKOV, N.N.	II ₄

NOT LOCATED:

A

ABELERA, E. A.
AKHLEBMINSKIY, K. S.
AKULMICHEV, I. I.
ALEKSANDER, P.
ALEKSANDROV, S. C.
ALIFANOV, V. N.

ALTUKHOV, G. V.
ARKAD'YEVSKIY, A. A.
ARRENIUS, Sv.
AUERBAKH, Sh.
AVRUNINA, G. A.
AYRAPETYANTS, M. G.

B

BABSKIY, Ye. B.
BABUSHKIN, V. I.
BAKHRAMOV, A. M.
BAKULEV, A.
BALAKHOVSKIY, I. S.
BARANOVSAYA, V. I.
BARASHKOV, G. K.
BARER, A. S.
BAZILEVSKAYA, G. A.
BELAY, V. Ye.
BELGOVSKIV, M. L.
BELYACOV, G. M.

BOGATKOV, P. I.
BOGINA, I. D.
BOIKO, N. N.
BOLOTINA, O. P.
BORSCHCHEVSKIY, Ya.
BRESLAV, I. S.
BUGROV, B. G.
BUTCHENKO, L. A.
BUYKO, Ye. A.
BUYLOV, B. G.
BYCHKOV, V. P.

C

CHAMOVA, K. G.
CHARAKHEHYAN, A. N.
CHARAKHCHYAN, T. N.

CHEREPAKHIN, M. A.
CHUDAKOV, A. I.
CHUDOV, L. A.

D

DANILEYKO, V. I.
DAREN SKAYA, N. G.
DEGTYAR', G. Ya.
DECTYAREV, V. A.
DEMIN, N. N.
DENISOV, V. G.

DOBRONRRAOV, V. V.
DOBROTKIN, N. A.
DOBROV, N. N.
DOLGINA, M. I.
DOMSHLAK, M. P.
DZHEPELEV, V. P.

E

EIGES, N. S.

F

FEDEVA, N. P.
FEDOROV, R. E.
FEDOROV, Y. K.
FEDOROVA, G. I.
FOGEL'SON, L. I.

FOMIN, A. G.
FRADKIN, M. I.
FRANK, G. M.
FRIZEN, G. G.
FYODOROVA, T. A.

GALKIN, A. M.
 GANSHINA, A. N.
 GENIN, A. M.
 GEORGIYEVSKIY, V. S.
 GINSBURG, V. L.
 GOLOV, G. A.
 GORBOV, F. D.
 GORCHOKOV, E. V.
 GORLOV, O. G.
 GORSHKOV, A. I.

GOSTIMSKII, S. A.
 GOVORUN, R. D.
 GOZULOV, S. A.
 GRAEVSKIY, E. Ya.
 GRIGOROV, N. L.
 GRIGORYEV, Yu. G.
 GRYUNTAL', R. G.
 GUBLER, Ye. V.
 (Mil. Med. Acad. Lenin)
 GUROVSKIY, N. N.
 GYURDZHIAN, A. A.

ILL'INA, I. A.
 IL'INSKAYA, N. B.
 ILL'MITSKIY, A. M.
 ILYINA, S. S.
 IVANENKO, I. P.

IVANOV, A. Ye.
 IVANOV, K. V.
 IVENS, T.
 ISOSIMOV, G. V.

KAKUSHKINA, M. L.
 KAMALYAN, V. Sh.
 KANTOROVICH, M.
 KAPICHNIKOV, M. M.
 KARAMZINA, N. M.
 KARPECHENKO, G. S.
 KARPOVA, L. I.
 KASKAN, I. I.
 KASPAREK, C. F.
 KASPRZYK, K.
 KAZAR'YAN, L. A.
 KEIRIM-MARKUS, I. B.
 KENISOV, V. G.
 KHARKEVICH, A. A.
 KHILOV, K. L.
 KHLEBMIKOV, G. F.
 KHLEBNIKOV, G. G.
 KHLOPIN, G. V.
 KHOLLENDER, E.
 KHROPOVA, V. I.
 KISELEV, A. A.
 KITAYEV-SMYK, L.
 KLIMOV, V. Yu.
 KLOSOVSKY, Boris
 KOGAN, A. M.
 KOLTsov, N. K.
 KOMENDANTOV, G. L.
 KONDRST'EV, Yu. I.
 KONOVALOV, A. I.

KONSTANTINOVA, M. M.
 KONZA, E. A.
 KOPANEV, V. I.
 KOP'YEV, Ya. V.
 KOPYLOV, M. B.
 KORNEEV, V. T.
 KORNENDANTOV, G. L.
 KORNEYEVA, N. V.
 KOROBKOV, A. V.
 KOROLEV, N. P.
 KOROTHOVA, V. P.
 KOSICHENKO, L. P.
 KOSOV, I. I.
 KOTOVA, A. R.
 KOVALENKO, Ye. A.
 KOVALEV, Ye. Ye.
 KOVYAZIN, N. V.
 KRYLOV, Yu. V.
 KUCHERENKO, T. M.
 KUDRYASHOV, Yu. B.
 KULIKOVSKIY, G. G.
 KURLYANDSKAYA, E. B.
 KUZNETSOV, A. G.
 KUZNETSOV, V. S.
 KURNOSOVA, L. V.
 KUZNETSOVA, N. N.
 KVITKO, K. V.

Not Located, continued

L

LAPKIN, Yu. A.
LEBEDINSKIY, A. V.
LEVASHOV, V. V.
LOVASHKOV, S. I.

LOGACHEV, Yu. L.
LOZANOV, N. N.
LUKIN, A. A.
LURE, G. E.

M

MAISKII, I. N.
MAKSIMOV, D. G.
MALKIN, V. B.
MARKELOV, V. V.
MARSHAK, M. Ye.
MATOV, V. V.
MATVEYEV, V. V.
MELLER, G.
MERKUSHKIN, Yu. G.
MESSI, -
METLITSKII, L. V.
MIDLER, A.

MIKHAILOVSKIY, G. P.
MILLER, A. V.
MIROLYUBOV, G. P.
MITUSHOV, M. I.
MOLCHANOVA, M. G.
MOSKALEV, Yu. I.
MOZHAEVA, V. S.
MURAZIN, V. Ch.
MYASNIKOV, V. I.

N

NADSON, G. A.
NAKHIL'NITSKAYA, Z. N.
NEFEDOV, Yu. G.
NEIFAKH, A.
NESMEYONOV, A. N.
NESTEROV, V. Ye.

NEVZGODINA, L. V.
NIKITINA, O. P.
NIKOLAEV, G.
NOVIKOV, S. N.
NOVIKOVA, I. S.
NOZDRACHEV, A. D.

O

OGARDNIKOV, K. F..
OKUNEV, R. A.
ORBELI, L. A.

OSIPOV, Yu. A.
OSIPOVA, M. M.

P

PAVLOV, V. N.
PETROV, A. V.
PETROV, G. G.
PETROV, R. V.
PETROVICH, G. V.
PETROVICH, I. K.
PETRUN', I. M.

PISARENKO, N. F.
PLATONOV, K. K.
POKROVSKY, G. I.
POLETAYEV, M. I.
POMERANTSEVA, M. D.
PROKOF'YEVA-BEL'GONS-
KAYA, A. A.

Not Located, continued

R

RAPOPORT, I. A.
RASSVETAYEV, V. V.
RAZARENOK, L. A.
RAZUMEYEV, A. N.
RETRUKHIN, V. G.
ROGOVENKO, Ye. S.

ROKOTOVA, N. A.
ROSIN, Ya. A.
RUMYANTSEVA, V. M.
RUSIN, V. Ya.
RYBAKOV, N. I.

S

SAKSONOV, P. P.
SALATSINSKAYA, Ye. N.
SAMOYLOVA, K. A.
SAVWNKO, I. A.
SBITNEVA, M. F.
SHLEIFMAN, F. M.
SERGEEVA, N. A.
SERGEYEV, A. A.
SERGEYEV, Konstantin' I.
SERGEYEV, N. P.
SEROV, A. D.
SERYAPIN, A. D.
SHAFTER, Yu. G.
SHAMINA, Z. B.
SHAVRIN, P. I.
SHEK, M. P.
SHEPELEV, E. Ya.
SHEYKIN, R. L.
SHMELEVA, A. M.
SHRAYBER, M. I.

SIDOROV, B. N.
SIL'VESTROV, M. M.
SIMPURA, S. F.
SIROTKIN, I. A.
SIVENTSEV, Yu. V.
SIVERTSEV, I. I.
SMIRENNYY, L. N.
SMIRNOVA, I. B.
SOKOLOV, A. D.
SOROKINA, N. N.
SOROV, A. D.
SPARSKIY, V. A.
STAROBINETS, K. M.
STASHKOV, A. M.
STEPANTSOV, V. I.
STRASHNENKO, S. I.
SUCHKOV, N. G.
SUVOРОV, P. M.

T

TERENT'YEV, V. G.
TIKHOIROV, Ye. P.
TIMAKOV, V.
TIMASHUK, K. F.
TOBIAS, K. A.
TRIBULEV, G. P.

TROKHACHEV, A. I.
TROSHIKHIN, G. G.
TRUSHINA, M. N.
TSIKORA, S.
TULINOV, V. F.
TUTOCHKINA, L. T.

U

USACHEV, V. V.
(Soviet Airforce Research
Testing Inst.)
USHAKOV, A. S.

USPENSKAYA, M. S.
USPENSKIY, L. N.

V

VAKAR, M. I.
VAKULOV, P. V.

VISHNEVSKIY, A. A.
VOLOVICH, V. G.

Not Located, continued

V continued

VALEVA, S. A.
VASIL'YEV, P. V.
VEREVKINA, G. L.
VERNOV, S. N.
VINOGRADOVA, I. N.

VOL'FENSON, L. G.
VOLYNKIN, Y. M.
VOSKRENSENSKIY, A. D.
VYSOTSKII, V. G.

Y

YAKOVLEV, V. V.
YAKUBOV, B. A.
YANSON, Z. A.
YARMONENKO, S. P.

YEGOROV, A. D.
YEREMIN, A. V.
YOSHIKAWA, K. K.
YUGOV, E. M.
YURKOV, A. F.
YURKOV, Yu. A.

Z

ZAKHAROV, I. A.
ZAKHAR'YEV, G. A.
ZANDER, N. V.
ZAZYKIN, K. P.
ZHIRONKIN, A. G.

ZHUKOV, M. V.
ZHURAVLEV, B. A.
ZIMINA, E. P.
(Mil. Med.Acad.Lenin)
ZUBAVIN, V. B.